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ENVIRONMENTAL DATABASES FOR STATE OF THE ENVIRONMENT REPORTING: ATMOSPHERIC ENVIRONMENT SERVICE, CANADIAN PARKS SERVICE, CORPORATE POLICY GROUP, ENVIRONMENT CANADA REGIONAL OFFICES

Report No. 16

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PREFACE

In December 1988, the SD/SOE Reporting Branch began an inventory of Environment Canada databases of potential use to SOE reporting. The inventory, initiated through the departmental SOE Working Group, will contribute to the SOE Information System being developed by Statistics Canada.

This report summarizes the inventory's results for the Atmospheric Environment Service, Canadian Parks Service, Corporate Policy Group and Regional Offices by identifying SOE-related databases held in those responsibility centres. It complements an earlier report released in August 1989 which identifies databases held by Conservation and Protection Service Headquarters (Keddy and McRae, 1989, 9).

ACKNOWLEDGEMENTS

Many individuals contributed to this report. Special thanks are due to the database managers and operators (identified as contact persons in the individual database descriptions) who provided pertinent information about their databases. In addition, the assistance of the Service and Regional representatives on the SOE Working Group in coordinating distribution and completion of database questionnaires is gratefully acknowledged (John Reid, Harold Eidsvik, Bernard Villeneuve, Mike Goffin, Vinod Marwaha, Terry Chiasson). Clarence Spencer, Alain Lamarche, Danielle Coulombe, Sharon Dominik, Malcolm Still, Judy Allen, Victor Bartnik and Marilyn Issavian also provided invaluable help in identifying relevant databases.

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Note: Parts one through four of this report are extracted from similar sections in Keddy and McRae (1989, Reference No. 9).

1. INTRODUCTION

State of the environment (SOE) reporting seeks to systematically analyse, describe and present credible, scientifically based information on environmental conditions and trends. The objective of SOE reporting is to provide Canadians with an integrated , holistic perspective of the state of the Canadian environment, and to indicate the significance of environmental change.

Environmental reporting is also instrumental for incorporating environmental data into decision making processes related to the economy, human activity and the environment. SOE reporting aims to enhance decision making capabilities by improving the information base which guides management decisions. Thus the importance of credible data and information on diverse environmental problems, conditions, and trends cannot be overemphasized (10).

The State of the Environment Information System (SOEIS) being developed by Statistics Canada, in cooperation with Environment Canada (1,7,11,16), is an important initiative of the SOE program. The SOEIS will help to address and meet the environmental data needs of SOE reporting, which can be summarized as follows:

- to determine data requirements for SOE reporting and identify their sources and data gaps, and;

- to manipulate and present the data in a form appropriate for SOE reporting.

The SOEIS will have two components. The first is a geographically referenced core set of summary socio-economic and environmental statistics using computer based geographic information system technology. The second component is a computerized database referral system. This report will provide input to both. However, some databases identified in this report may not be included in the database referral system; further evaluation of these databases and their relevance to SOE reporting is required before a decision on inclusion is made.

The purpose of the referral system is to document and facilitate access to information on available environmental databases, guide potential users to this data, increase public awareness about environmental databases, and stimulate interest in, and use of, this information resource. Over the long term, this system has the potential to play a catalytic role in stimulating action towards environmental protection by encouraging cooperation among database managers, by identifying gaps in information for critical environmental indicators, by identifying needs for additional environmental monitoring, and by providing an environmental database organization model for other jurisdictions such as provinces.

2. BACKGROUND

2.1 Credible Environmental Data: The Foundation for SOE Reporting

Accurate state of the environment reporting relies on the systematic analysis of credible, scientifically-based data on environmental conditions and trends (13). There are numerous potential sources of this information including knowledgeable individuals, reports, and databases associated with a variety of governmental and non-governmental organizations.

Data most useful for nationally oriented SOE reporting are collected on a national scale to provide truly representative coverage. They will have been collected regularly, over a long period, using consistent, nationally standardized methods. These kinds of data will illustrate variation in space and time, and are appropriate for the analysis of national and regional patterns, trends, and relationships necessary for assessing the state of the environment. In addition, they will likely be useful in a predictive capacity.

Data on both natural resources and processes as well as on human activities which influence environmental change are necessary for assessing the state of the environment. Ideally, a framework should be established to determine which environmental data are of most use in assessing the state of the environment and to organize the resulting databases. Frameworks for organizing environmental data are discussed below.

2.2 Organizing Environmental Data

In general, a framework for organizing environmental data will reveal the relationships among databases currently maintained, identify gaps or data needs, and help ensure that data of most use are collected (i.e. specific purpose of data collection and end use are identified before data are collected). More specifically, a framework is required for organizing the databases in this report in a manner which reflects the needs of SOE reporting.

Numerous database directories, data source publications and reports were reviewed (eg. 2,3,4,5,15,18) that illustrate the many ways of organizing environmental data. Each has its own merits and applicability depending on the reason each was established. For example, environmental data could be organized by responsibility center (eg. federal government departments), geographically (eg. watersheds, ecoregions), by environmental medium (eg. air, water, land), or by an integrated approach such as the STRESS framework. This latter framework groups datasets by categorizing the relationships between humans and the other elements of the ecosystem, and most closely fits the needs of SOE reporting (6,8,14,17).

The framework used in this report for organizing databases is derived from the STRESS framework, as modified by the Stakeholder Group on Environmental Reporting (6) and the SOE Reporting Branch (12). The entire framework is outlined in Appendix 4, while Appendix 1 lists the

databases identified in this report by framework category. Below, the four major categories of environmental data are briefly described:

I. **Environmental Assets**

This category includes information on natural resources such as water, land, fisheries, forests, non-renewable resources, climate and the oceans. Details on stock supply, location, population characteristics, meteorological statistics and oceanographic statistics would be found in databases in this group.

II. **Agents of Environmental Change**

Many natural and anthropogenic factors influence the environment and result in environmental change. Information on diverse natural and socio-economic stress activities would be provided in this section. Examples include floods and earthquakes, the generation and disposal of wastes, environmental restructuring activities, and harvesting/depletion of renewable and non-renewable resources.

III. **Environmental Quality**

This category groups actual measures of environmental quality, and covers topics such as air quality (levels and trends of pollutants); food (contaminants); human health and exposure (toxic substance analysis); soil quality (erosion, salinization); precipitation (acid deposition); forests (depletion); and landscape (loss of wetland, agricultural land conversion, protected areas).

IV. **Other**

This group contains information that may not be of direct use to SOE reporting, but may be manipulated or used to provide an indirect indication of the relative state of the environment.

3. DATABASE INVENTORY: OBJECTIVES AND LIMITATIONS

The SOE database inventory was conducted to identify databases held in Environment Canada that are of potential direct or indirect value to SOE reporting and the database referral system.

There are several limitations of this inventory relevant to SOE reporting:

- no effort was made to assess the reliability or quality of data within the databases from an SOE perspective.
- the significance of individual databases for SOE reporting was not thoroughly evaluated. Database selection criteria were employed to select databases (see 4.2), but databases of indirect relevance to SOE reporting were also identified and included in this report.
- this inventory covers only environmental databases, not reports, publications or other sources of environmental information that might be of use to SOE reporting or of interest for the referral system.

4. CONDUCTING THE INVENTORY

4.1 Database Identification

Based on examples from other database surveys and personal communication with others who have conducted similar surveys*, a survey form was designed for recording all relevant information on databases from an SOE viewpoint (Appendix 5). This survey form was incorporated into an information package (12) outlining the purpose of the inventory, guidelines for database selection, a sample completed questionnaire, and an overview of the database organizational framework.

The information package was then distributed through the departmental SOE Working Group to the targetted responsibility centers. In many cases the database questionnaires were further distributed within the specific Region or Service via its particular SOE group or network. The Atlantic Region databases listed in this report were identified from the recently completed regional database inventory.

Information received on each database was then entered into a standard format. Completed database descriptions were then returned to the appropriate database managers for final verification.

4.2 Database Selection Criteria

Databases were selected for their potential significance for SOE reporting. Databases of direct relevance to SOE reporting (eg. Background Air Pollution Monitoring Network - page 87) were preferred

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* (eg. C. Spencer, Environmental Quality Division, Environmental Protection, Atlantic Region)

over those of indirect relevance (eg. Canadian Inventory of Historic Buildings, page 141).

Both databases of national geographic coverage and those covering a region of national significance were included. Examples of nationally important regional areas include the Niagara River, St. Lawrence River, the North, the agricultural prairie region, Canada's coastal zones. A database on water quality in the Gatineau River, for example, would not be considered of national significance. It should be recognized, however, that the geographic coverage criteria are not rigidly fixed, and were used only as guidelines.

Regularly updated databases where temporal trends could be examined were preferred to single time-frame databases, although these were also accepted as they can be useful in providing a baseline against which data collected in the future can be compared.

Databases stored in machine readable format, in paper files or by any other means were included.

5. ENVIRONMENTAL DATABASES FOR SOE REPORTING: ATMOSPHERIC ENVIRONMENT SERVICE, CORPORATE POLICY GROUP, CANADIAN PARKS SERVICE, DOE REGIONAL OFFICES.

The results of the database inventory are summarized in Appendices 1, 2, and 3. Appendix 1 lists the databases and/or datafiles relevant to SOE reporting by STRESS framework category, Appendix 2 lists the databases by responsibility centre, while Appendix 3 contains detailed database descriptions organized by STRESS framework category.

6. REFERENCES

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APPENDIX 1

SOE DATABASE INVENTORY BY STRESS FRAMEWORK CATEGORY

FRAMEWORK CATEGORY AND DATABASES

		No. of* Databases	Page
I	ENVIRONMENTAL ASSETS	19	20
	A. Water Resources	5	
	Canadian Glacier Inventory (W&NR**)		0
	Current Meter System (OR)		23
	Great Lakes Hydrologic and Hydraulic Data (OR)		25
	Ice Concentrations Grid Points Database (AES)		27
	Ice Thickness and Snow Depth (AES)		29
	B. Wildlife	10	
	Coastal Waterfowl Survey (AR)		31
	Colonial Birds in the Maritimes (AR)		33
	Inventory of Colonial Water Birds of the Great Lakes (OR)		35
	Northern Ontario Waterfowl Database (OR)		37
	Ontario Forest Bird Monitoring Program (OR)		39
	Piping Plover Nesting Sites (AR)		41
	Répertoire des sites sensibles dans le fleuve Saint-Laurent (QR)		43
	Seabird Colony Catalogue (PYR)		45

*Note: Databases covering more than one category are listed under each category covered (eg. Freshwater Database); the sum of the number of databases in all four categories is larger than the total number of databases identified since some are listed several times.

** Abbreviations

DOE REGIONS

PYR = Pacific and Yukon Region
W&NR = Western and Northern Region
OR = Ontario Region
QR = Quebec Region
AR = Atlantic Region

DOE SERVICES

AES = Atmospheric Environment Service
CPS = Canadian Parks Service
CPG = Corporate Policy Group

FRAMEWORK CATEGORY AND DATABASE	No. of Databases	Page
Système informatisé d'analyse de données reliées aux Oiseaux Aquatiques du Québec et à leurs habitats (QR)		48
Western Canada Pelagic Seabird Database (PYR)		50
C. Climate	2	
Meteorological Data System (OR)		53
National Archive - Climate (AES)		55
E. General (Multi-Category Databases)	2	
Répertoire des sites sensibles dans le fleuve Saint-Laurent		43
Réseau TADPA - Québec - données physiographiques (QR)		58
II AGENTS OF ENVIRONMENTAL CHANGE	12	60
A. Waste Generation and Disposal	9	
1. Industrial Discharges	4	
Discharge Inventory Database (PYR)		60
Gestion de données de rejets réglementés de raffineries de pétrole (QR)		63
Système de gestion des données de pâtes et papiers (QR)		65
Système de gestion des données de rejets industriels dans le fleuve Saint-Laurent (QR)		67
2. Environmental Spills	1	
Spills Database (PYR)		69
3. PCBs	2	
PCB Inventory Database (W&NR)		71
PCB Inventory System (AR)		73

FRAMEWORK CATEGORY AND DATABASE	No. of Databases	Page
4. Ocean Dumping/Dredging	2	
Dragage dans le fleuve Saint-Laurent (QR)		75
Northern Dredging Database (W&NR)		77
B. Environmental Restructuring	3	
1. Flooding and Flood Risk	2	
Flood Risk Map (AR)		79
Floor Risk Mapping for Ontario (OR)		81
2. Human Use of Wilderness Areas	1	
Public Use Database (CPS)		84
III ENVIRONMENTAL QUALITY	27	87
A. Air	4	
Background Air Pollution Monitoring Network (AES)		87
Canadian Air and Precipitation Monitoring Network (AES)		90
National Atmospheric Chemistry Database (AES)		93
World Ozone Database (AES)		96
B. Water	6	
Freshwater Database (PYR)		98
Great Lakes Water Quality (OR)		100
LRTAP Biomonitoring Sites (OR)		124
Shellfish Database (AR)		102
Shelldat, Gaspdat (PYR)		104
Système de gestion des données du programme de surveillance de la qualité bactériologique des secteurs coquilliers (QR)		106

FRAMEWORK CATEGORY AND DATABASE	No. of Databases	Page
C. **Sediments**	5	
Dragage dans le fleuve Saint-Laurent (QR)		75
Freshwater Database (PYR)		98
Great Lakes Sediment Data (OR)		108
Qualité des sédiments dans le fleuve Saint-Laurent (QR)		110
Sediment Database (W&NR)		112
D. **Precipitation**	5	
Bibliographie signilatique sur les précipitations acides (QR)		114
Bulletin pH (QR)		116
Canadian Air and Precipitation Monitoring Network (AES)		90
National Atmospheric Chemistry Database (AES)		93
South Coast British Columbia (PYR)		118
E. **Wildlife**	3	
Environmental Contaminants in Seabirds (AR)		120
Impacts of Pesticides on Songbirds (AR)		122
LRTAP Biomonitoring Sites (OR)		124
F. **Fish**	1	
LRTAP Biomonitoring Sites (OR)		124
G. **Landscape**	3	
National Park Biophysical Inventories (CPS)		127
Parc (QR)		132
Protected Areas Database (CPS)		134
IV **OTHER DATABASES**	10	137
Artifact Information System (CPS)		137

FRAMEWORK CATEGORY AND DATABASE

	No. of Databases	Page
Banque bibligraphique sur les ressources et les usages du fleuve St. Laurent (QR)		139
Canadian Inventory of Historic Buildings (CPS)		141
Gestion des données relatives aux mesures de plomb dans l'essence (QR)		143
Great Lakes Shoreline Geographic Information System (OR)		145
Historic Sites and Monument Board of Canada/Systems Planning (CPS)		147
Lake Superior Shore Property Inventory and Damage Survey (OR)		149
Projets des centres manufacturiers historiques (CPS)		151
Public Opinion on the Environment (CPG)		153
Western and Northern Region Industrial Compliance (W&NR)		156

APPENDIX 2

SOE DATABASE INVENTORY SUMMARY BY RESPONSIBILITY CENTRE

RESPONSIBILITY CENTRE AND DATABASE	No. of Databases	Page
ATMOSPHERIC ENVIRONMENT SERVICE (AES)	7	
Background Air Pollution Monitoring Network		87
Canadian Air and Precipitation Monitoring Network		90
Ice Concentrations Grid Points Database		27
Ice Thickness and Snow Depth Database		29
National Archive (Climate)		55
National Atmospheric Chemistry Database		93
World Ozone Database		96
CANADIAN PARKS SERVICE (CPS)	7	
Artifact Information System		137
Canadian Inventory of Historic Buildings		141
Historic Sites and Monuments Board of Canada/Systems Planning		147
National Park Biophysical Inventories		127
Projects des centres manufacturiers historiques		151
Protected Areas Database		134
Public Use Database		84
CORPORATE POLICY GROUP (CPG)*	1	
Public Opinion on the Environment		153

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* Note: The addition to the Corporate Policy Group of the Sustainable Development/SOE Reporting Branch (formerly of the Conservation and Protection Service) in September 1989 has significantly expanded the database holdings of this service. See Keddy and McRae, 1989 (reference 9, page 17) for a complete listing of databases held by the SD/SOE Reporting Branch.

RESPONSIBILITY CENTRE AND DATABASE	No. of Databases	Page
PACIFIC AND YUKON REGION	7	
A. Atmospheric Environment Service		
South Coast British Columbia		118
B. Conservation and Protection Service		
Discharge Inventory Database		60
Freshwater Database		98
Seabird Colony Catalogue		45
Shelldat, Gaspdat		104
Spills Database		69
Western Canada Pelagic Seabird Database		50
WESTERN AND NORTHERN REGION	5	
A. Conservation and Protection Service		
Canadian Glacier Inventory		20
Northern Dredging Database		77
PCB Inventory Database		71
Sediment Database		112
Western and Northern Region Industrial Compliance		156
ONTARIO REGION	12	
A. Conservation and Protection Service		
Current Meter System		23

Note: Some regional office databases are not identified in this report as they are sub-sets of national databases (identified in Keddy and McRae, (1989, 9)). For example, the regional sub-files of the National Water Quality Database (NAQUADAT) are not listed in this report.

RESPONSIBILITY CENTRE AND DATABASE

	No. of Databases	Page
FRDP Flood Risk Mapping for Ontario		81
Great Lakes Hydrologic and Hydraulic Data		25
Great Lakes Sediment Data		108
Great Lakes Shoreline Geographic Information System		145
Great Lakes Water Quality		100
Inventory of Colonial Water Birds of the Great Lakes		35
Lake Superior Shore Property Inventory and Damage Survey		149
LRTAP Biomonitoring Sites		124
Meteorological Data System		53
Northern Ontario Waterfowl Database		37
Ontario Forest Bird Monitoring Program		39
RÉGION DU QUÉBEC	14	
A. Service Canadien des Parcs		
Parc		132
B. Service Conservation et Protection		
Banque bibliographique sur les ressources et les usages du fleuve St. Laurent		139
Bibliographique signilatique sur les précipitations acides		114
Dragage dans le fleuve Saint-Laurent		75
Gestion des données de rejets réglementés de raffineries de pétrole		63
Gestion des données relatives aux mesures de plomb dans l'essence		143

RESPONSIBILITY CENTRE AND DATABASE

	No. of Databases	Page
Qualité des sediments dans le fleuve Saint-Laurent		110
Répertoire des sites sensibles dans le fleuve Saint-Laurent		43
Réseau TADPA - Québec données physiographiques		58
Système de gestion des données de pâtes et papiers		65
Système de gestion des données de rejets industriels dans le fleuve Saint-Laurent		67
Système de gestion des données du programme de surveillance de la qualité bactériologique des secteurs coquilliers		106
Système informatisé d'analyse de données reliées aux oiseaux aquatiques du Québec et à leurs habitats		48
C. Service de l'Environnement Atmospherique		
Bulletin pH		116
ATLANTIC REGION	8	
A. Conservation and Protection Service		
Coastal Waterfowl Survey		31
Colonial Birds in the Maritimes		33
Environmental Contaminants in Seabirds		120
Flood Risk Map Database		79
Impacts of Pesticides on Songbirds		122
PCB Inventory System		73
Piping Plover Nesting Sites		41
Shellfish		102

APPENDIX 3

DATABASE DESCRIPTIONS ORGANIZED BY STRESS FRAMEWORK CATEGORY

DATABASE: CANADIAN GLACIER INVENTORY (CGI)

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Information on Canada's approximately 100,000 glaciers in the form of an internationally standardized data set, maps, photographs, textual material and bibliographies.

b) **Purpose of the Database**

To provide information to Canadians and others about Canada's glaciers and to document, for one period of time, the state of Canada's frozen water resources.

3. a) **Name and Address of Responsible Organization**

Scientific Information Division, National Hydrology Research Institute, 11 Innovation Blvd., Saskatoon, Saskatchewan S7N 3H5.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Mr. C. Simon L. Ommanney (306) 975-5751

c) **Access Mechanisms**

Through the responsible organization. Database is only partly machine readable and is not on-line.

4. a) **Parameters Measured (summarized if too extensive)**

- region and basin identification
- glacier number
- geographical and UTM coordinates
- orientation
- elevations - highest, lowest, snow line
- date of snow line
- mean elevations - accumulation and ablation areas
- length and width
- surface areas - total exposed, ablation
- accumulation area ratio
- mean (estimated) depth
- volume (estimated)
- classification and description
- special and general comments
- glacier name
- area by 100m elevation bands

DATABASE: CANADIAN GLACIER INVENTORY (CGI)

b) **Geographic Coverage**

All glacierized areas of Canada.

c) **Data Acquisition Method(s)**

Map and airphoto interpretation, literature searches, donation.

d) **Geographic Unit(s) of Measurement**

Geographical and UTM coordinates.

e) **Period of Record**

Time series. Basic data set derived from aerial photographs taken from 1950-1962. General information extends back to start of glacier records in mid-1880's.

f) **Update Frequency**

Not applicable.

g) **Database Hardware/Software Configuration**

Machine readable files in Wordstar and Lotus run on IBM-AT. Hard copy maps, photos, paper, files, etc.

h) **Output Format(s) (tables, maps, etc.)**

Tables, lists, reports, maps.

5. **Restrictions and Conditions**

None.

6. **Price Information**

Small requests handled at no charge. Larger requests may involve some cost recovery if staff have to be hired to process request.

7. **Corresponding Printed Sources**

Comprehensive printed sources of data mass balance and glacier fluctuations data available from World Glacier Monitoring Service, Zurich, Switzerland.

8. **Languages**

English. References may be multilingual. Russian, Chinese, German, French, etc.

9. **User Aids Available**

Glacier Inventory Note series.

10. **Suggested Keywords**

Glaciers, Snow, Ice, Canada, Arctic, Yukon, B.C., Alberta, Labrador, Baffin Island, Devon Island, Ellesmere Island, Axel Heiberg Island, Rockglaciers, Rockies, Coast Mountains.

11. **Additional Information**

The database is a miscellaneous collection of many types and sources of glacier and snow and ice information. The critical link is the contact person who can make all the necessary connections. Long-term plans call for the reduction of most of the database to a machine readable form to be accessible, probably on-line, through the National Hydrology Research Institute library.

DATABASE: CURRENT METER SYSTEM

1. Datafile Name(s)

Not applicable.

2. a) Summary Description of Contents

Time series of water current data in the Great Lakes, except Lake Michigan.

b) Purpose of the Database

Data is used for modeling of transport and dispersion of contaminants, estimates of effects on shore structures, search and rescue and other scientific studies.

3. a) Name and Address of Responsible Organization

Computing and Programming Section, Research Support Division, National Water Research Institute, Canada Centre for Inland Waters, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario L7R 4A6.

b) Contact Person(s), Address (if different from 3a), Telephone Number

Jo-ann Hodson (416) 336-4627
Maurice Kerman (416) 336-4945

c) Access Mechanisms

Through the responsible organization.

4. a) Parameters Measured (summarized if too extensive)

- water temperature
- speed of current
- direction of current

b) Geographic Coverage

Great Lakes, except Lake Michigan; can include smaller lakes across Canada.

c) Data Acquisition Method(s)

Individual monitoring stations.

d) Geographic Unit(s) of Measurement

Site specific measurements.

e) Period of Record

1967 to present.

f) Update Frequency

Time series at 20-minute intervals.

g) Database Hardware/Software Configuration

Data are stored on a CYBER Mainframe computer; data can be downloaded to connected personal computers.

h) Output Format(s) (tables, maps, etc.)

- listings
- statistical summaries
- time series plots
- tapes

5. Restrictions and Conditions

No confidentiality or access restrictions. Searches are carried out by personnel of the responsible organization.

6. Price Information

No charge.

7. Corresponding Printed Sources

Various research reports use the data contained in this database. Generally, the publications contain summary data whereas the database contains raw data.

8. Languages

English.

9. User Aids Available

Documentation is available giving tape formats, a summary of each program, and how to execute it.

10. Suggested Keywords

Water currents
Great Lakes

11. Additional Information

Not applicable.

DATABASE: GREAT LAKES HYDROLOGIC AND HYDRAULIC DATA

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Historical monthly data, starting in 1900, on lake levels, outflows, ice flow retardation, water supplies to Great Lakes, diversions.

b) **Purpose of the Database**

To support international Management of Great Lakes water levels and related studies.

3. a) **Name and Address of Responsible Organization**

1. Water Planning and Management Branch, Inland Waters Directorate, Ontario Region, P.O. Box 5050, Burlington, Ontario L7R 4A6.

and

2. Great Lakes - St. Lawrence Study Office, Environment Canada, Suite 232, Lionel Chevrier Building, 111 Water Street East, Cornwall, Ontario K6H 6S2.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

C. Southam, (416) 336-4955 (address 1 above).
S. Dumont, (613) 938-5725 (address 2 above).

c) **Access Mechanisms**

Through either of the responsible organizations.

4. a) **Parameters Measured (summarized if too extensive)**

- water levels
- lake and river flows
- net water supplies to Great Lakes
- precipitation
- water diversions

b) **Geographic Coverage**

Great Lakes - St. Lawrence System, including the Welland Canal.

c) **Data Acquisition Method(s)**

Monitoring stations, reports from other agencies.

d) Geographic Unit(s) of Measurement

Lake, river, drainage basin, or site specific.

e) Period of Record

Variable between 1900 to present.

f) Update Frequency

Varies among files. Can be daily, weekly, monthly, or yearly.

g) Database Hardware/Software Configuration

Mainframe computer, PC's.

h) Output Format(s) (tables, maps, etc.)

Tables of numbers only.

5. Restrictions and Conditions

None.

6. Price Information

No charges for reasonably-sized requests.

7. Corresponding Printed Sources

Numerous reports on studies of Great Lakes water levels.

8. Languages

English in reports but all data are in numerical format.

9. User Aids Available

None.

10. Suggested Keywords

Great Lakes, hydrology, water levels.

11. Additional Information

Similar water level/flow data for the Great Lakes are published annually in Canada by Environment Canada's Water Survey of Canada for Canadian stations and by the U.S. National Oceanic and Atmospheric Administration for United States stations.

DATABASE: ICE CONCENTRATIONS GRID POINTS DATABASE

1. **Datafile Name(s)**

Arctic/Hudson Bay/Eastern Seaboard/Great Lakes.

2. a) **Summary Description of Contents**

Grid point digitized ice parameters from composite and historical ice charts.

b) **Purpose of the Database**

To analyse distribution of sea ice to provide historical and statistical information.

3. a) **Name and Address of Responsible Organization**

Environment Canada, Ice Climatology and Applications, LaSalle Academy, 373 Sussex Drive, Block 'E', Ottawa, Ontario K1A 0H3.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

David Mudry (613) 996-4214

c) **Access Mechanisms**

Through the contact person or the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

- ice concentration and floe size information for multi-year, second year, first year, grey-white, grey and new ice types.

b) **Geographic Coverage**

Canadian Arctic archipelago
Hudson Bay
Labrador Coast
Gulf, Great Lakes and Newfoundland waters

c) **Data Acquisition Method(s)**

Satellite/aircraft/ship reconnaissance + shore observations.

d) **Geographic Unit(s) of Measurement**

Grid points mesh ½° latitude by 1° longitude, 5 km grid for Great Lakes.

e) **Period of Record**

1959 - 1980 for the Arctic. Hudson Bay and Approaches, 1959-1983.
Eastern Canadian Seaboard, 1959-1974.
Great Lakes 1960-1979.

DATABASE: ICE CONCENTRATIONS GRID POINTS DATABASE

f) Update Frequency

Every 5 to 10 years, or when possible.

g) Database Hardware/Software Configuration

Magnetic tape, diskettes (IBM).

h) Output Format(s) (tables, maps, etc.)

Print-out of raw or processed data. Published Atlas for Canadian Arctic Waterways, Eastern Canadian Seaboard and Hudson Bay and Approaches areas. (A Great Lakes Atlas was published by the U.S. National Oceanographic and Atmospheric Administration).

5. Restrictions and Conditions

None.

6. Price Information

$119.00 for the first tape plus $29.95 for each additional tape.
$102.75 for the first diskette plus $7.60 for each additional diskette.

7. Corresponding Printed Sources

See 4h above - Canadian Atlasses.

8. Languages

Canadian Atlasses are bilingual.

9. User Aids Available

Manual of standard procedures for observing and reporting ice conditions (MANICE).

10. Suggested Keywords

Ice concentration, ice distribution
Ice age, ice development
Ice floes

11. Additional Information

The Ice Climatology and Applications Division of the Atmospheric Environment Service has additional ice information for various regions of Canada. Contact them directly for additional information.

DATABASE: ICE THICKNESS AND SNOW DEPTH

1. **Datafile Name(s)**

Ice thickness point data.

2. a) **Summary Description of Contents**

Weekly measurements of ice thickness and snow depth from shore stations.

b) **Purpose of the Database**

To analyse the change in thickness of ice and provide historical and statistical information on it.

3. a) **Name and Address of Responsible Organization**

Environment Canada, Ice Climatology and Applications, LaSalle Academy, 373 Sussex Drive, Block 'E', Ottawa, Ontario K1A 0H3.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Phil Côté (613) 996-4353

c) **Access Mechanisms**

Through the contact person or the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

- thickness of ice (cm)
- snow depth (cm)

b) **Geographic Coverage**

Canadian coastal areas.

c) **Data Acquisition Method(s)**

Direct measurement at each location.

d) **Geographic Unit(s) of Measurement**

Specific sites identified by local reference points (Approximately 150 sites, 125 of them active).

e) **Period of Record**

1947 - present. Exact record varies among stations (majority are less than 30 years).

f) **Update Frequency**

Annually.

DATABASE: ICE THICKNESS AND SNOW DEPTH

g) Database Hardware/Software Configuration

Magnetic tape, diskettes (IBM).

h) Output Format(s) (tables, maps, etc.)

Print-out of raw or processed data
Statistical tables
Annual publications

5. Restrictions and Conditions

None.

6. Price Information

$119.00 for the first tape plus $29.55 for each additional tape.
$102.75 for the first diskette plus $7.60 for each additional diskette.

7. Corresponding Printed Sources

Annual Ice Thickness Data Publications are available from the responsible organization.

8. Languages

Publications are bilingual.

9. User Aids Available

Manual of standard procedures for observing and reporting ice conditions (MANICE).

10. Suggested Keywords

Ice thickness
Snow depth

11. Additional Information

The Ice Climatology and Applications Division of the Atmospheric Environment Service (AES) has additional ice information for various regions of Canada. Contact them directly for additional information.

DATABASE: COASTAL WATERFOWL SURVEY

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   Information on the distribution and abundance of coastal waterfowl populations in parts of Atlantic Canada during spring, winter and fall.

   b) **Purpose of the Database**

   To document bird distribution and abundance in coastal waters.

3. a) **Name and Address of Responsible Organization**

   Canadian Wildlife Service
   Environment Canada
   Sackville N.B.
   E0A 3C0

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Bruce Johnson (506) 536-3025

   c) **Access Mechanisms**

   Through the responsible organization or contact person.

4. a) **Parameters Measured (summarized if too extensive)**

   - number of birds
   - bird location
   - time of survey
   - pre and post-season counts

   b) **Geographic Coverage**

   Nova Scotia, New Brunswick, Prince Edward Island (uneven coverage).

   c) **Data Acquisition Method(s)**

   Aerial surveys.

   d) **Geographic Unit(s) of Measurement**

   Survey blocks of varying sizes.

   e) **Period of Record**

   1966 to present.

f) **Update Frequency**

Periodic, no set update frequency.

g) **Database Hardware/Software Configuration**

Digital database.

h) **Output Format(s) (tables, maps, etc.)**

Tables of numbers broken down by species.

5. **Restrictions and Conditions**

None.

6. **Price Information**

No charge.

7. **Corresponding Printed Sources**

Several reports have been published which contain parts of the information contained in the database.

8. **Languages**

English.

DATABASE: COLONIAL BIRDS IN THE MARITIMES

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   Information on the distribution and abundance of colonial birds in parts of Atlantic Canada

   b) **Purpose of the Database**

   To monitor the status of bird populations and colonies in the Maritime provinces.

3. a) **Name and Address of Responsible Organization**

   Canadian Wildlife Service
   Environment Canada
   Sackville, N.B.
   EOA 3CO

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   A. Smith (506) 536-3025

   c) **Access Mechanisms**

   Through the responsible organization or contact person.

4. a) **Parameters Measured (summarized if too extensive)**

   - number of breeding pairs of birds
   - location of colonies

   b) **Geographic Coverage**

   Nova Scotia, New Brunswick, Prince Edward Island (primarily coastal areas).

   c) **Data Acquisition Method(s)**

   Ground and aerial surveys.

   d) **Geographic Unit(s) of Measurement**

   Individual bird colonies.

   e) **Period of Record**

   1960's to the present.

f) Update Frequency

Annually.

g) Database Hardware/Software Configuration

Hard copy - binder form or topographic charts.

h) Output Format(s) (tables, maps, etc.)

Mainly survey sheets summarizing parameter information.

5. Restrictions and Conditions

None.

6. Price Information

No charge.

7. Corresponding Printed Sources

Numerous reports have been released which contain parts of the information contained in the database.

8. Languages

English.

DATABASE: INVENTORY OF COLONIAL WATER BIRDS OF THE GREAT LAKES

1. **Datafile Name(s):**

Not applicable.

2. a) **Summary Description of Contents**

Complete inventory of colonial water birds nesting on the Great Lakes (i.e. inventory of colonies and census of nests).

b) **Purpose of the Database**

To monitor trends in colonial waterbird populations.

3. a) **Name and Address of Responsible Organization**

Canadian Wildlife Service
Environment Canada
49 Camelot Avenue
Nepean, Ontario
K1A 0H3

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Dr. Hans Blokpoel (613) 952-2410

c) **Access Mechanisms**

Through the contact person.

4. a) **Parameters Measured (summarized if too extensive)**

- Location of colony sites
- Species nesting
- Number of nests
- Colony site information

b) **Geographic Coverage**

All of Great Lakes.

c) **Data Acquisition Method(s)**

On-site nest counts made during the breeding season.

d) **Geographic Unit(s) of Measurement**

Colony or nesting site.

e) **Period of Record**

1989 field work in Lakes Superior and Huron completed. Subsequent fieldwork for lakes Erie and Ontario in planning stage.

f) **Update Frequency**

To be updated approximately every 10 years.

g) **Database Hardware/Software Configuration**

Personal computer using D-Base software.

h) **Output Format(s) (tables, maps, etc.)**

Tables, maps, diskettes and eventually, an atlas.

5. **Restrictions and Conditions**

None

6. **Price Information**

No charge expected.

7. **Corresponding Printed Sources**

Reports in progress.

8. **Languages**

English

9. **User Aids Available**

None

10. **Suggested Keywords**

1) Colonial Water Birds, Great Lakes
2) Gulls, Terns, Cormerants and Herons

11. **Additional Information**

Data collection is currently in progress; the database is planned for completion by or in 1991.

DATABASE: NORTHERN ONTARIO WATERFOWL DATA BASE

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Waterfowl population density, species occurrence and habitat preference information.

b) **Purpose of the Database**

To monitor waterfowl populations; to determine range and habitat requirements.

3. a) **Name and Address of Responsible Organization**

Canadian Wildlife Service
Environment Canada
49 Camelot Drive
Nepean, Ontario
K1A 0H3

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Ken Ross (613) 952-2415

c) **Access Mechanisms**

Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

- Species
- Sex
- Density
- Wetland habitat type

b) **Geographic Coverage**

All of Ontario north of the French and Mattawa Rivers.

c) **Data Acquisition Method(s)**

Plots surveyed by helicopter.

d) **Geographic Unit(s) of Measurement**

Wetland specific within 2x2 kilometre plots.

e) **Period of Record**

1980 to present.

DATABASE: NORTHERN ONTARIO WATERFOWL DATA BASE

f) Update Frequency

Yearly.

g) Database Hardware/Software Configuration

P.C. based using D-Base, SAS and SPANS software.

h) Output Format(s) (tables, maps, etc.)

Tables and maps (spans format).

5. Restrictions and Conditions

None.

6. Price Information

No cost.

7. Corresponding Printed Sources

None.

8. Languages

English.

9. User Aids Available

None.

10. Suggested Keywords

Waterfowl
Loons
Northern Ontario

DATABASE: ONTARIO FOREST BIRD MONITORING PROGRAM

1. Datafile Name(s)

   Not applicable.

2. a) Summary Description of Contents

   Bird species and abundance for each major forest type throughout Ontario.

   b) Purpose of the Database

   To identify trends in forest bird populations and to identify critical habitats.

3. a) Name and Address of Responsible Organization

   Canadian Wildlife Service (CWS)
   Environment Canada
   49 Camelot Drive
   Nepean, Ontario
   K1A 0H3

   b) Contact Person(s), Address (if different from 3a), Telephone Number

   Dr. Dan Welsh (613) 952-2405

   c) Access Mechanisms

   Through the responsible organization.

4. a) Parameters Measured (summarized if too extensive)

   - Bird species and abundance;
   - Tree species, density and vegetative cover.

   b) Geographic Coverage

   All of Ontario.

   c) Data Acquisition Method(s)

   Point count bird survey method (volunteers and staff of CWS).

   d) Geographic Unit(s) of Measurement

   Forest stand.

   e) Period of Record

   1987 to present.

DATABASE: ONTARIO FOREST BIRD MONITORING PROGRAM

f) Update Frequency

Yearly.

g) Database Hardware/Software Configuration

P.C. based; SAS' ORACLE.

h) Output Format(s) (tables, maps, etc.)

Tables.

5. Restrictions and Conditions

No restrictions.

6. Price Information

Depends on the request.

7. Corresponding Printed Sources

Technical and scientific reports in progress.

8. Languages

English.

9. User Aids Available

None.

10. Suggested Keywords

Forest Bird Monitoring
Breeding Birds
Ontario Birds

DATABASE: PIPING PLOVER NESTING SITES

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   Information on piping plover populations in Atlantic Canada.

   b) **Purpose of the Database**

   To maintain data on the population of Piping Plovers in Atlantic Canada.

3. a) **Name and Address of Responsible Organization**

   Canadian Wildlife Service
   Environment Canada
   Sackville, N.B.
   EOA 3C0

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Bruce Johnson (506) 536-3025

   c) **Access Mechanisms**

   Through the responsible organization or contact person.

4. a) **Parameters Measured (summarized if too extensive)**

   - number and location of breeding pairs
   - number of eggs per nest

   b) **Geographic Coverage**

   Atlantic provinces - coastal beach and dune systems.

   c) **Data Acquisition Method(s)**

   On-site inspections during the nesting season (June-July).

   d) **Geographic Unit(s) of Measurement**

   Bird-nesting sites.

   e) **Period of Record**

   1975 to the present.

f) Update Frequency

Surveys in National Parks are annual. Surveys elsewhere are opportunistic. A complete survey will be done in 1991.

g) Database Hardware/Software Configuration

Hard copy.

h) Output Format(s) (tables, maps, etc.)

Tables of numbers and maps.

5. Restrictions and Conditions

Some restriction may apply to prevent disturbances to birds.

6. Price Information

No charge.

7. Corresponding Printed Sources

Les Oiseaux Menacés du Québec. Environnement Canada, CWS 1989.

8. Languages

English.

9. User Aids Available

None.

10. Suggested Keywords

11. Additional Information

1. The Piping Plover is an endangered species in the Atlantic Region. While information is generally available to the public, some discretion is used to protect breeding birds.

2. Data are also used to evaluate the usefulness of protective measures.

BASE DE DONNÉES: RÉPERTOIRE DES SITES SENSIBLES DANS LE FLEUVE SAINT-LAURENT

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Cartographie des sites sensibles à des déversements accidentels.

   b) **Objet, usages**

   Évaluation des impacts possible de déversements accidentels.

3. a) **Nom et adresse de l'organisme responsable**

   Direction de la Protection de l'environnement, Division des enquêtes et interventions, Environnement Canada, Conservation et Protection, 1179 de Bleury, Montréal, Québec, H3B 3H9.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Claude Rivet (514) 283-2345.

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   - Utilisateurs d'eau et diverses types de zones sensibles.

   b) **Région visée**

   Le Québec habité.

   c) **Méthode de collecte de données**

   Consultation d'experts.

   d) **Unité(s) de mesure géographique(s)**

   Données ponctuelles et par zone.

   e) **Période visée par le données**

   Données de l'année courante (1987).

f) **Fréquence de mise à jour**

Une fois par 5 ans environ.

g) **Support (hardware/software)**

Cartes.

h) **Présentation (tableaux, cartes, etc.)**

Cartes.

5. **Restrictions et conditions**

Aucune.

6. **Prix**

Aucun.

7. **Sources imprimées correspondantes**

Cartes et rapport.

8. **Langue(s)**

Français.

9. **Aides à l'utilisateur disponibles**

Aucune.

10. **Mots-clés suggérés**

- Cartographie
- Sites sensibles
- Déversements accidentels

11. **Renseignements supplémentaires**

Le système est en voie d'informatisation. Les cartes sont disponibles pour consultation.

DATABASE: SEABIRD COLONY CATALOGUE

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

An island by island record of populations of colonial seabirds along the west coast of British Columbia.

b) **Purpose of the Database**

To provide baseline data on western colonial seabirds for planning purposes.

3. a) **Name and Address of Responsible Organization**

Canadian Wildlife Service, Environment Canada, Box 340, Delta, B.C. V4K 3Y3.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Mr. Gary Kaiser (604) 946-8546

c) **Access Mechanisms**

Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

- seabird species (Rhinoceros Auklet, Cassin's Auklet, Ancient Murelet, Tufted Puffin, Double-crested and Pelagic cormorants, Leach's Storm-petrel, Fork-tailed Storm-petrel, Glaucus-winged Gull
- number of nests
- habitat (ground cover, island size)
- colony location, landing areas, potential campsites on islands

b) **Geographic Coverage**

More than 100 islands along the coast of British Columbia.

c) **Data Acquisition Method(s)**

Field surveys of islands.

d) **Geographic Unit(s) of Measurement**

Individual islands.

e) **Period of Record**

Data collected 1980-1988.

f) **Update Frequency**

Irregular for portions of the coast; no update for the entire area is planned.

g) **Database Hardware/Software Configuration**

Microcomputer using WORDSTAR.

h) **Output Format(s) (tables, maps, etc.)**

Tables.

5. **Restrictions and Conditions**

None.

6. **Price Information**

No charge for reasonably sized requests.

7. **Corresponding Printed Sources**

1. No periodic reports based on the database are planned.

2. Seven technical reports are planned, two of which have been prepared (see 11).

8. **Languages**

English publications with French abstracts.

9. **User Aids Available**

None.

10. **Suggested Keywords**

Seabirds - population size
Wildlife - seabirds

11. **Additional Information**

1. Reports produced:
Rodway, M., M. Lemon and G. Kaiser. 1988. British Columbia seabird colony inventory, Report No. 1 East coast Moresby Island. CWS Technical Publication No. 5.

Rodway, M. 1988. British Columbia seabird colony inventory, Census of Glaucus-winged Gulls, Pelagic Cormorants, Black Oyster-catchers and Pigeon Guillemots in the Queen Charlotte Islands, 1986. CWS Technical Report No. 43.

2. Reports are available from the responsible agency.

BASE DE DONNÉES: SYSTÈME INFORMATISÉ D'ANALYSE DE DONNÉES RELIÉES AUX OISEAUX AQUATIQUES DU QUÉBEC ET À LEURS HABITATS

1. **Noms des fichiers**

SIDOQ

2. a) **Brève description du contenu**

Information sur une centaine d'espèces d'oiseaux aquatiques présents en migration et en hiver le long du St-Laurent et de ses principaux tributaires et description des milieux aquatiques retrouvés.

b) **Objet, usages**

- Évaluations environnementales
- Déversements d'hydrocarbures

3. a) **Nom et adresse de l'organisme responsable**

Environnement Canada, Service canadien de la faune, 1141, rte de l'Église, 9e étage, C.P. 10100, Sainte-Foy, Qc G1V 4H5.

b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

Denis Lehoux (418) 648-2544

c) **Mécanismes d'accès**

Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

- Maximum, densité, diversité et chronologie d'utilisation des espèces d'oiseaux aquatiques par saison (printemps, automne, hiver) pour environ 350 zones le long du St-Laurent.

- Superficie de différents types d'habitats aquatiques par km^2 ou par zone le long du St-Laurent.

b) **Région visée**

- fleuve, estuaire et golfe St-Laurent
- Rivières des Outaouais, Richelieu et Saguenay
- Lac Saint-Jean

c) **Méthode de collecte de données**

- Inventaires aériens et terrestres

d) **Unité(s) de mesure géographique(s)**

- 350 zones d'environ 15km de longueur pour les oiseaux
- 4 000 unités de $1km^2$ pour l'habitat

BASE DE DONNÉES: SYSTÈME INFORMATISÉ D'ANALYSE DE DONNÉES RELIÉES AUX OISEAUX AQUATIQUES DU QUÉBEC ET À LEURS HABITATS

e) **Période visée par les données**

1975 à 1985.

f) **Fréquence de mise à jour**

Aucune.

g) **Support (hardware/software)**

Sur disque dur, IBM-PC, Kman.

h) **Présentation (tableaux, cartes, etc.)**

Tableaux et chiffres seulement.

5. **Restrictions et conditions**

Pas de restrictions.

6. **Prix**

Pas de frais.

7. **Sources imprimées correspondantes**

Deux rapports sont publiés:
- La sauvagine dans le système du Saint-Laurent (SCF)
- Milieux humides le long du fleuve Saint-Laurent: Document de travail No. 45 - Direction générale des terres

8. **Langue(s)**

Les données et le rapport sur la sauvagine sont disponibles en français. La publication sur les milieux humides est disponible dans les deux langues officielles.

9. **Aides à l'utilisateur disponibles**

Aucune.

10. **Mots-clés suggérés**

- Oiseaux aquatiques le long du Saint-Laurent
- Habitats aquatiques le long du Saint-Laurent

DATABASE: WESTERN CANADA PELAGIC SEABIRD DATABASE

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Data on the distribution of pelagic seabirds and oceanographic parameters along the west coast of British Columbia.

b) **Purpose of the Database**

To establish the distribution of pelagic seabirds along the west coast of British Columbia in order to priorize areas of importance and minimize the detrimental impact of environmental disturbances (e g. oil spills, gill nets).

3. a) **Name and Address of Responsible Organization**

Canadian Wildlife Service, P.O. Box 340, Delta, B.C. V4K 3Y3.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Mr. Kees Vermeer, Canadian Wildlife Service, c/o Institute of Ocean Sciences, P.O. Box 6000, Sidney, B.C. V8C 4B2 (604) 356-6537

c) **Access Mechanisms**

Through the responsible agency or contact person.

4. a) **Parameters Measured (summarized if too extensive)**

- seabird species, number of birds and food habits
- distance from shore
- water depth
- location of shelfbreak
- water temperature
- salinity
- presence of trawlers, other fishing boats
- weather conditions

b) **Geographic Coverage**

Regional - west coast of British Columbia.

c) **Data Acquisition Method(s)**

Data acquired through contractors, students, from oceanographic vessels.

DATABASE: WESTERN CANADA PELAGIC SEABIRD DATABASE

d) Geographic Unit(s) of Measurement

Ten minute observation periods along transects for which latitude and longitude of the start and end points are recorded.

e) Period of Record

1982 - present.

f) Update Frequency

Gaps in area coverage are closed as funds become available.

g) Database Hardware/Software Configuration

Paper file.

h) Output Format(s) (tables, maps, etc.)

Tables, maps.

5. Restrictions and Conditions

None.

6. Price Information

Contact responsible agency or person.

7. Corresponding Printed Sources

A summary report is being planned. Several publications have been prepared (see 11).

8. Languages

Reports are in English with French abstracts.

9. User Aids Available

None.

10. Suggested Keywords

Pelagic seabirds - Western Canada
Wildlife - pelagic seabird populations

DATABASE: WESTERN CANADA PELAGIC SEABIRD DATABASE

11. Additional Information

1. Four reports have been produced, for example:

   Vermeer, K., R. Hay and L. Rankin. 1987. Pelagic seabird populations of southwestern Vancouver Island. Canadian Technical Report of Hydrology and Ocean Sciences No. 87.

   Vermeer, K. and L. Rankin. 1985. Pelagic seabird populations in Dixon Entrance. Canadian Technical Report of Hydrology and Ocean Sciences No. 65.

   Vermeer, K. and L. Rankin. 1984. Pelagic seabird population in Hecate Strait and Queen Charlotte Sound: comparison with the west coast of the Queen Charlotte Islands. Canadian Technical Report of Hydrology and Ocean Sciences No. 52.

   Vermeer, K., I. Robertson, I.W. Campbell, G. Kaiser and M. Lemon. 1983. Distribution and densities of Canadian marine birds on the west coast. Canadian Wildlife Service Report, Vancouver, B.C. 74 p.

2. Provided funding is received to prepare a summary report, the data will be computerized.

DATABASE: METEOROLOGICAL DATA SYSTEM (MET)

1. Datafile Name(s)

Not applicable.

2. a) Summary Description of Contents

Time series of meteorological data at stations in Canada.

b) Purpose of the Database

Data are used by scientists, government agencies and consulting engineers for climatological studies, lake circulation models, and storm surge models.

3. a) Name and Address of Responsible Organization

Computing and Programming Section, Research Support Division, National Water Research Institute (NWRI), Canada Centre for Inland Waters (CCIW), 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario L7R 4A6.

b) Contact Person(s), Address (if different from 3a), Telephone Number

Jo-ann Hodson (416) 336-4627
Maurice Kerman (416) 336-4945

c) Access Mechanisms

Through the responsible organization.

4. a) Parameters Measured (summarized if too extensive)

- windspeed
- wind direction
- air temperature
- water temperature
- relative humidity
- transmissometer

b) Geographic Coverage

Ontario, with periodic special projects elsewhere in Canada, including Northwest Territories.

c) Data Acquisition Method(s)

Individual monitoring stations.

d) Geographic Unit(s) of Measurement

Site specific measurements.

e) Period of Record

- 1970 to present.

f) Update Frequency

Continuous.

g) Database Hardware/Software Configuration

Mainframe Cyber computer, using custom software. Data are stored on magnetic tape.

h) Output Format(s) (tables, maps, etc.)

- listings
- statistical summaries
- plots (time series)
- tapes

5. Restrictions and Conditions

No confidentiality or access restrictions. Searches are carried out by personnel located at CCIW.

6. Price Information

No charges for reasonably sized requests.

7. Corresponding Printed Sources

Various research reports use the data contained in the database. Generally, the publications contain summary data whereas the database contains the raw data.

8. Languages

English.

9. User Aids Available

Documentation is available giving a summary of each program and how to execute it, as well as tape format.

10. Suggested Keywords

Meteorological data.

DATABASE: NATIONAL ARCHIVE (CLIMATE)

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Data from a Canadian network of stations continuously monitoring meteorological parameters.

b) **Purpose of the Database**

To identify national, regional and local trends in the climate of Canada.

3. a) **Name and Address of Responsible Organization**

Atmospheric Environment Service, Environment Canada
Attn: Canadian Climate Centre, 4905 Dufferin Street, City of North York, Downsview, Ontario M3H 5T4.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

F.R. Bowkett (416) 739-4399
J.R. Sandilands (416) 739-4318

c) **Access Mechanisms**

Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

- various air quality parameters
- daily climate
- deep water waves
- evaporation
- freeze-up/break-up
- hourly observations
- ice thickness
- ozone
- radiation
- radioactivity
- rate of precipitation
- satellite
- sea current
- seismology
- snow course
- soil temperatures
- sunshine
- synoptics
- upper air
- wind
- station information system

DATABASE: NATIONAL ARCHIVE (CLIMATE)

b) **Geographic Coverage**

National and adjacent waters

c) **Data Acquisition Method(s)**

Individual monitoring stations (approximately 30% of stations are on the real time communication network.

d) **Geographic Unit(s) of Measurement**

Varies - depending on parameter measured.

e) **Period of Record**

1840 to present (length of record is site specific).

f) **Update Frequency**

Monthly.

g) **Database Hardware/Software Configuration**

Mainframe computer using custom software. Data are stored on magnetic tape.

h) **Output Format(s) (tables, maps, etc.)**

Tables of numbers, maps, charts, magnetic tapes, floppy discs.

5. **Restrictions and Conditions**

No restrictions, requests for data should be directed to the Climate Services Division or Data Management Division.

6. **Price Information**

Price schedule applies.

7. **Corresponding Printed Sources**

1. Canadian Climate Normals
2. Climatological Station Catalogue
3. Principal Station Data
4. Computer Tabulations - fiche/paper
5. Monthly Record and Monthly Radiation (fiche)
6. Monthly and Annual Meteorological Summaries
7. Handbook on Climate Data Sources

DATABASE: NATIONAL ARCHIVE (CLIMATE)

8. **Languages**

Reports are available in English and French. The database contains numbers and station names, etc.

9. **User Aids Available**

1. Documentation for the Digital Archive of Canadian Climatological Data (Surface)

2. Format Documentation for the Digital Archive of Upper Air

3. Introduction for Direct Access User of the Digital Archive of Canadian Climatological Data

10. **Suggested Keywords**

Climate Change
Meteorological Trends
Precipitation Return Periods
Snow Load
Temperature or Precipitation Extremes

11. **Additional Information**

1. The National Climate Archive/Database resides on a computer in the Central Services Directorate.

2. The observing networks are generally more closely spaced in the southern more populated latitudes of Canada.

BASE DE DONNÉES: RÉSEAU TADPA-QUÉBEC DONNÉES PHYSIOGRAPHIQUES

1. **Noms des fichiers**

Sans objet.

2. a) **Brève description du contenu**

Données terrestres sur les bassins des lacs du réseau de détection de tendances dans l'acidification des eaux de surface.

b) **Objet, usages**

Établir un lien entre les conditions du bassin versant et la réaction des eaux du lac aux apports acides d'origine atmosphérique.

3. a) **Nom et adresse de l'organisme responsable**

Environnement Canada, Conservation et protection, Direction des eaux intérieures, Région du Québec, 1141 Route de l'Église, 8e étage, C.P. 10100, Ste-Foy, Québec G1V 4H5.

b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

John Haemmerli ou André Bouchard (418) 648-3921

c) **Mécanismes d'accès**

Par l'entremise de l'organisme responsable, qui fera parvenir une disquette de la banque.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

Les paramètres suivants sont mesurés:

Géologie: type de roche, classe d'altérabilité
Morphométrie: pente et drainage
Pédologie: - Granulométrie
- Chimie
  * ions majeurs
  * capacité d'échange cationique (CEC)
  * métaux
- Minéralogie
Couvert forestier: type et structure

b) **Région visée**

Une bande de 150 km entre la rivière des Outaouais et le Saguenay
35 sites inventoriés, 6 à faire, 25 probables.

c) **Méthode de collecte de données**

Cartes géologiques
Photointerprétation
3 pédons dans chaque bassin

BASE DE DONNÉES: RÉSEAU TADPA-QUÉBEC DONNÉES PHYSIOGRAPHIQUES

d) **Unité(s) de mesure géographique(s)**

Données par bassin versant.

e) **Période visée par les données**

De 1983 à 1986.

f) **Fréquence de mise à jour**

Selon les échantillonnages.

g) **Support (hardware/software)**

Micro-ordinateur (famille IBM)
Disque dur et disquette
Knowledgeman

h) **Présentation (tableaux, cartes, etc.)**

Tableaux de chiffres
Cartes de couvert forestier et profils pédologiques disponibles.

5. **Restrictions et conditions**

Pas de restrictions.

6. **Prix**

Pas de frais.

7. **Sources imprimées correspondantes**

Une étude complète planifiée pour 1989.

8. **Langue(s)**

Les documents, entêtes et légendes de cartes sont en français.

9. **Aides à l'utilisateur disponibles**

Sans objet.

10. **Mots-clés suggérés**

Aucune.

11. **Renseignements supplémentaires**

La base de données sur disquette est obtenable sans problème sous forme de fichiers ASCII.

Pour des copies des cartes et des profils de sols, cela peut être plus compliqué et dépendre de la disponibilité du personnel.

DATABASE: DISCHARGE INVENTORY DATABASE

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Information on wastewater discharges under provincial permits (municipal, industrial, mines, wood industries) and from federal facilities.

b) **Purpose of the Database**

To keep track of all provincially permitted effluent discharges in B.C., and those emanating from federal facilities in B.C.

3. a) **Name and Address of Responsible Organization**

Environmental Protection, Conservation and Protection, Environment Canada, Kapilano 100, Park Royal, 3rd floor, West Vancouver, B.C. V7T 1A2.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Alain David (604)666-2699

c) **Access Mechanisms**

Through contact person.

4. a) **Parameters Measured (summarized if too extensive)**

The following fields are included in the database:

- site name
- location
- category
- provincial Waste Management Branch region
- latitude and longitude
- discharge type
- discharge description
- discharge flow
- treatments applied to the discharge
- receiving water
- shellfish area
- provincial Waste Management Branch permit number and issue date
- Environmental Protection file number
- site contact
- position of discharge operator
- phone number

DATABASE: DISCHARGE INVENTORY DATABASE

b) **Geographic Coverage**

British Columbia.

c) **Data Acquisition Method(s)**

Provincial permit system and field information.

d) **Geographic Unit(s) of Measurement**

Not applicable.

e) **Period of Record**

1968 to the present.

f) **Update Frequency**

Monthly.

g) **Database Hardware/Software Configuration**

Mainframe Datapoint.

h) **Output Format(s) (tables, maps, etc.)**

Listing using searches and sortings.

5. **Restrictions and Conditions**

None.

6. **Price Information**

No charge.

7. **Corresponding Printed Sources**

None.

8. **Languages**

English.

9. **User Aids Available**

User friendly.

10. **Suggested Keywords**

Permits, discharges, effluent.

DATABASE: DISCHARGE INVENTORY DATABASE

11. Additional Information

1. The municipal and industrial permit information is very complete.

2. The mining and wood industry information is not as complete.

3. Effluent quality data are available from the Waste Management Branch of the B.C. Ministry of Environment, or from Environment Canada (see 3a).

BASE DE DONNÉES: GESTION DES DONNÉES DE REJETS RÈGLEMENTÉS DE RAFFINERIES DE PÉTROLE.

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Données des rejets règlementés provenant des raffineries de pétrole au Québec.

   b) **Objet, usages**

   Suivi de la conformité au règlement. Utilisé pour la production de rapports et l'analyse de tendances temporelles.

3. a) **Nom et adresse de l'organisme responsable**

   Direction de la Protection de l'environnement, Division du contrôle de l'assainissement des eaux, Environnement Canada, Conservation et Protection, 1179 de Bleury, Montréal, Québec, H3B 3H9.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Guy Coulombe (514) 283-2337.

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   - pH
   - Solides en suspension
   - sulfures
   - azote ammoniacal
   - phénols
   - huiles et graisses.

   b) **Région visée**

   Province de Québec.

   c) **Méthode de collecte de données**

   Données fournies par les compagnies.

   d) **Unité(s) de mesure géographique(s)**

   Données se rapportant à un site industriel.

BASE DE DONNÉES: GESTION DES DONNÉES DE REJETS RÈGLEMENTÉS DE RAFFINERIES DE PÉTROLE.

e) **Période visée par le données**

Depuis 1980.

f) **Fréquence de mise à jour**

Une fois par année, ou plus régulièrement.

g) **Support (hardware/software)**

Micro-ordinateur, DBASE.

h) **Présentation (tableaux, cartes, etc.)**

Tableaux de chiffres, Graphiques.

5. **Restrictions et conditions**

L'ensemble de ces données est accessible dans le cadre de la Loi sur l'accès à l'information.

6. **Prix**

Aucun.

7. **Sources imprimées correspondantes**

Un rapport annuel (publication interne à faible diffusion).

8. **Langue(s)**

Français.

9. **Aides à l'utilisateur disponibles**

Aucune.

10. **Mots-clés suggérés**

Raffineries
Pétrole
conformité
règlement

BASE DE DONNÉES: SYSTÈME DE GESTION DES DONNÉES DE PÂTES ET PAPIERS

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Données des rejets règlementés provenant des usines de pâtes et papiers (et profils industriels).

   b) **Objet, usages**

   Production de rapports annuels de conformité. Réponse à des demandes d'information.

3. a) **Nom et adresse de l'organisme responsable**

   Direction de la Protection de l'Environnement, Division du contrôle de l'assainissement des eaux, Environnement Canada, 1179 de Bleury, Montréal, Québec, H3B 3H9.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Guy Coulombe (514) 283-2337.

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   - Matières en suspension.
   - DBO5.
   - Toxicité sur la truite.

   b) **Région visée**

   Québec (environ 50 sites industriels).

   c) **Méthode de collecte de données**

   Données fournies par les compagnies.

   d) **Unité(s) de mesure géographique(s)**

   Données se rapportant à un site industriel.

   e) **Période visée par le données**

   1984 à ce jour.

f) Fréquence de mise à jour

Une fois par année.

g) Support (hardware/software)

Micro ordinateur (logiciel maison dévelopé en KnowledgeMan).

h) Présentation (tableaux, cartes, etc.)

Tableaux de chiffres; Textes.

5. Restrictions et conditions

L'ensemble de ces données est accessible dans le cadre de la Loi sur l'accès à l'information.

6. Prix

Pas de frais.

7. Sources imprimées correspondantes

Un rapport annuel (publication interne à faible diffusion).

8. Langue(s)

Rapport publié en français seulement.

9. Aides à l'utilisateur disponibles

Aucune.

10. Mots-clés suggérés

Pâtes et papiers
Règlementation

BASE DE DONNÉES: SYSTÈME DE GESTION DES DONNÉES DE REJETS INDUSTRIELS DANS LE FLEUVE SAINT-LAURENT

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Profile des 50 usines du Plan d'action Saint-Laurent, données de qualité des effluents industriels, et cartographie des données du milieu recepteur.

   b) **Objet, usages**

   Suivi des activités de réduction des toxiques industriels du Plan d'action Saint-Laurent.

3. a) **Nom et adresse de l'organisme responsable**

   Direction de la protection de l'environnement, Division du contrôle de l'assainissement des eaux, Environnement Canada, Conservation et Protection, 1179 de Bleury, Montréal, Québec, H3B 3H9.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Gaétan Duschesneau (514) 873-0498
   Thuy Phuong Pham
   Ministère de l'Environnement du Québec
   Direction de l'Assainissement Industriel
   5199 rue Sherbrooke Est, Bureau 2931, Montreal, Qué. H1T 3X3.

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisme responsable ou les personnes ressources.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   Métaux
   Composés organiques
   Débits
   Charges polluantes

   b) **Région visée**

   Fleuve Saint-Laurent.

   c) **Méthode de collecte de données**

   Échantillonnage.

BASE DE DONNÉES: SYSTÈME DE GESTION DES DONNÉES DE REJETS INDUSTRIELS DANS LE FLEUVE SAINT-LAURENT

d) **Unité(s) de mesure géographique(s)**

Données se rapportant à un point.

e) **Période visée par le données**

Depuis 1988.

f) **Fréquence de mise à jour**

Une fois par année.

g) **Support (hardware/software)**

Micro-ordinateur PC compatible, Logiciel INGRAPH, Foxbase et Autocad (GIS).

h) **Présentation (tableaux, cartes, etc.)**

Cartes et tableaux de chiffres (GIS).

5. **Restrictions et conditions**

Certaines données de profils industriels sont confidentielles (productions).

6. **Prix**

Aucun.

7. **Sources imprimées correspondantes**

Aucune.

8. **Langue(s)**

Français.

9. **Aides à l'utilisateur disponibles**

Guide d'utilisation.

10. **Mots-clés suggérés**

- rejets
- Métaux
- Plan d'action Saint-Laurent
- Industries
- fleuve Saint-Laurent
- composés organiques

DATABASE: SPILLS DATABASE

1. Datafile Name(s)

Not applicable.

2. a) Summary Description of Contents

All spills reported to Environmental Protection, Pacific and Yukon Region from 1984 to present.

b) Purpose of the Database

- establish trends
- identify prevention needs
- identify repeat polluters
- yearly/quarterly summaries

3. a) Name and Address of Responsible Organization

Environmental Emergencies Branch, Environmental Protection, Kapilano 100, Park Royal, West Vancouver, B.C. V7T 1A2.

b) Contact Person(s), Address (if different from 3a), Telephone Number

S. Pond (604) 666-0370
F. Beech (604) 666-2165

c) Access Mechanisms

Through the responsible organization.

4. a) Parameters Measured (summarized if too extensive)

- date of occurrence
- material spilled
- amount spilled
- location - name and coordinates
- industrial sector
- polluter
- lead agency
- other agencies involved
- legal implication
- "significance"
- comments

b) Geographic Coverage

All of B.C., and coastal waters.

c) Data Acquisition Method(s)

Inter-agency Reporting System.

DATABASE: SPILLS DATABASE

d) Geographic Unit(s) of Measurement

- by place name and by coordinates
- by environment: land, freshwater, marine, air

e) Period of Record

1984 to present.

f) Update Frequency

Daily.

g) Database Hardware/Software Configuration

D Base 3 plus software on a personal computer.

h) Output Format(s) (tables, maps, etc.)

Tables, summaries, individual reports.

5. Restrictions and Conditions

Access limited.

6. Price Information

No charge.

7. Corresponding Printed Sources

None.

8. Languages

English.

9. User Aids Available

Guide Book.

10. Suggested Keywords

Spills.

11. Additional Information

1. The software program is available to other Environmental Protection regions compiling spill records.

2. The database is comparable in structure to the Environment Canada National Analysis of Trends in Emergencies System (NATES) database but involves all spills, not just significant ones.

DATABASE: PCB INVENTORY DATABASE

1. **Datafile Name(s)**

   Alberta, Saskatchewan, Manitoba and North-West Territory (NWT).

2. a) **Summary Description of Contents**

   Inventory of labels identifying the location of PCB-containing equipment (in use and stored for disposal).

   b) **Purpose of the Database**

   To generate reports. To track in-use and disposal information of PCB-containing equipment.

3. a) **Name and Address of Responsible Organization**

   Scientific Programs Branch, Environmental Protection,
   4999 - 98 Avenue, C&P, Edmonton, Alberta T6B 2X3.

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Linda Black (403) 468-8033

   c) **Access Mechanisms**

   Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

   - company name and address
   - label number
   - equipment type, status and number of pieces

   b) **Geographic Coverage**

   Western and Northern Region of Environment Canada (Manitoba, Saskatchewan, Alberta, N.W.T.).

   c) **Data Acquisition Method(s)**

   Contact with individual companies.

   d) **Geographic Unit(s) of Measurement**

   Not applicable.

   e) **Period of Record**

   1979 - present.

f) **Update Frequency**

Ongoing.

g) **Database Hardware/Software Configuration**

Microcomputer, 40 MB hard disk, D-Base III and R&R software.

h) **Output Format(s) (tables, maps, etc.)**

Reports (tables).

5. **Restrictions and Conditions**

Confidential business information, internal use only. Searches conducted by district office personnel.

6. **Price Information**

No charge.

7. **Corresponding Printed Sources**

Reports generated as requested.

8. **Languages**

English.

9. **User Aids Available**

Not applicable.

DATABASE: PCB INVENTORY SYSTEM

1. Datafile Name(s)

   Not applicable.

2. a) Summary Description of Contents

   Information on the location of PCB - containing equipment in the Atlantic Region.

   b) Purpose of the Database

   To maintain an inventory of PCB equipment.

3. a) Name and Address of Responsible Organization

   Environmental Protection
   Environment Canada
   Queen Square
   Dartmouth, N.S.
   B2Y 2N6

   b) Contact Person(s), Address (if different from 3a), Telephone Number

   D. Quigley
   J. Clarke
   (902) 426-5048

   c) Access Mechanisms

   Through the responsible organization or contact persons.

4. a) Parameters Measured (summarized if too extensive)
   - inventory of transformers and capacitors and other equipment which contain PCBs
   - location of PCB-containing equipment
   - volume of PCB liquid
   - manufacturers specifications

   b) Geographic Coverage

   Nova Scotia, New Brunswick, Newfoundland and Prince Edward Island.

   c) Data Acquisition Method(s)

   Data compiled from site inspections and information provided by industrial, commercial and institutional establishments and government departments.

   d) Geographic Unit(s) of Measurement

   Individual locations containing PCB equipment.

DATABASE: PCB INVENTORY SYSTEM

e) Period of Record

1985 to the present.

f) Update Frequency

Monthly.

g) Database Hardware/Software Configuration

Digital - IBM PC, ZIM database package.

h) Output Format(s) (tables, maps, etc.)

5. Restrictions and Conditions

Data are confidential, although summaries of the data may be released. Data on PCB's in storage for disposal is publicly available; data on in-use and stored-for-use equipment is confidential.

6. Price Information

7. Corresponding Printed Sources

8. Languages

English.

9. User Aids Available

10. Suggested Keywords

11. Additional Information

1. The data are helpful in hazardous waste management and spill response.

BASE DE DONNÉES: DRAGAGE DANS LE FLEUVE SAINT-LAURENT

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Résultats d'échantillonnage de sites de dragage et données sur la réalisation de projets de dragage.

   b) **Objet, usages**

   Utilisé pour le suivi des projets et le suivi de la qualité des sédiments.

3. a) **Nom et adresse de l'organisme responsable**

   Centre Saint-Laurent, Direction du développement technologique, Section des technologies de restauration, Environnement Canada, Conservation et Protection, 105 rue McGill, bureau 400, Montréal, Québec, H2Y 2E7.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Lucie Olivier (514) 496-2272.

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   - Volume dragués
   - Granulométrie
   - Métaux
   - Composés organiques

   b) **Région visée**

   Fleuve Saint-Laurent et rivière Saguenay.

   c) **Méthode de collecte de données**

   Échantillonnage sur le terrain.

   d) **Unité(s) de mesure géographique(s)**

   Données se rapportant à une site de dragage. (petite zone)

   e) **Période visée par le données**

   Depuis 1977.

BASE DE DONNÉES: DRAGAGE DANS LE FLEUVE SAINT-LAURENT

f) **Fréquence de mise à jour**

Une fois par année.

g) **Support (hardware/software)**

Micro-ordinateur PC compatible Logiciel Foxbase.

h) **Présentation (tableaux, cartes, etc.)**

Tableaux de chiffres.

5. **Restrictions et conditions**

Ensemble du système accessible sur demande pour des cas particuliers.

6. **Prix**

Aucun.

7. **Sources imprimées correspondantes**

Aucune.

8. **Langue(s)**

Français.

9. **Aides à l'utilisateur disponibles**

Aucune.

10. **Mots-clés suggérés**

Projet de dragage, sédiments, polluants, métaux, granulométrie, composés organiques.

11. **Renseignements supplémentaires**

- La base de donnée en est à l'étape de la validation. Elle sera disponible au cours de 1990.

DATABASE: NORTHERN DREDGING DATABASE

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   Details on materials, sites, and methods for dumping and dredging in the Beaufort Sea.

   b) **Purpose of the Database**

   To archive information on dredging and dumping in the Beaufort Sea.

3. a) **Name and Address of Responsible Organization**

   Environmental Protection, Conservation and Protection, Environment Canada, Box 370, Yellowknife, Northwest Territories X1A 2N3.

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Mr. André D'Entremont (403) 873-3456

   c) **Access Mechanisms**

   Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

   - dates (start, finish of operation)
   - purposes of dredging/dumping
   - company, dredge name and type, contact
   - sediment type (sand, gravel, silt)
   - load/dump volume total
   - load site/dump site (latitude, longitude, name, depth)
   - dump method (off barge, cutter, suction dredge, pump)
   - island created (name, type, status of year end)

   b) **Geographic Coverage**

   Offshore Beaufort Sea, Northwest Territories.

   c) **Data Acquisition Method(s)**

   Data supplied by industry.

   d) **Geographic Unit(s) of Measurement**

   Individual dumping/dredging sites.

   e) **Period of Record**

   1959 - 1986.

DATABASE: NORTHERN DREDGING DATABASE

f) Update Frequency

Not updated beyond 1986. New information will likely be entered in the Ocean Dumping Data System database of Environment Canada.

g) Database Hardware/Software Configuration

Microcomputer with D-BASE III software and Turbo pascal.

h) Output Format(s) (tables, maps, etc.)

Tables, published report (see 7).

5. Restrictions and Conditions

None.

6. Price Information

No charge for reasonably sized requests.

7. Corresponding Printed Sources

One report has been produced. Sackman, T., J.W. McDonald, T. Browver and L. Turney. 1986. Database compilation of dredging activity in the Canadian Beaufort Sea, a supplementary report. EP, Western and Northern Region 86/87 - CP (EP) - 14.

8. Languages

Report is in English.

9. User Aids Available

None.

10. Suggested Keywords

Environmental restructuring - ocean dredging/dumping
Ocean - dredging/dumping

11. Additional Information

1. This database contains similar information to that in the Ocean Dumping Permit System (ODUMP) database.

2. This database has no editing capability and will likely eventually become a part of ODUMP.

3. The information in this database comes from the Department of Indian and Northern Affairs.

DATABASE: FLOOD RISK MAP

1. Datafile Name(s)

Not applicable.

2. a) Summary Description of Contents

A series of maps which identify flood risk areas, villages and river systems.

b) Purpose of the Database

To accumulate information to reduce flood damage.

3. a) Name and Address of Responsible Organization

Inland Waters Directorate
Environment Canada
Dartmouth, N.S.
B2Y 2N6

b) Contact Person(s), Address (if different from 3a), Telephone Number

T. Hennigar (902) 426-3266

c) Access Mechanisms

Through the responsible organization or contact person.

4. a) Parameters Measured (summarized if too extensive)

- areal extent of flood plains
- ice presence
- water levels, flow

b) Geographic Coverage

Canada - includes Nova Scotia, New Brunswick and Newfoundland.

c) Data Acquisition Method(s)

Field surveys, compilation of existing data.

d) Geographic Unit(s) of Measurement

Flood plains of river systems.

e) Period of Record

1976 to the present.

DATABASE: FLOOD RISK MAP

f) Update Frequency

Initial data collection still ongoing.

g) Database Hardware/Software Configuration

Hard copy - includes maps of flood plains.

h) Output Format(s) (tables, maps, etc.)

Maps of various scales.

5. Restrictions and Conditions

None.

6. Price Information

Cost of map reproduction.

7. Corresponding Printed Sources

Several hydro-technical studies are available which document rainfall, runoff and flooding characteristics of the mapped areas.

8. Languages

English and French.

9. User Aids Available

Several brochures and fact sheets are available.

10. Additional Information

1. The information is used to direct development away from flood-prone areas through a designation process by federal and provincial environment departments.

2. Maps are used to foster public awareness of flood prone areas and for zoning and regulation purposes.

3. Data are used to assist in flood forecasts for the St. John River (federal/provincial agreement).

DATABASE: FDRP FLOOD RISK MAPPING FOR ONTARIO - CENV (WATDOC)

1. Datafile Name(s)

Not applicable.

2. a) Summary Description of Contents

Flood risk mapping at 1:2000 and 1:5000 scale, hydrotechnical analysis, watershed physiographic data, flood data.

b) Purpose of the Database

Land use planning/managemert, water resources management, flood damage reduction.

3. a) Name and Address of Responsible Organization

Water Planning and Management Branch, Inland Waters Directorate, Ontario Region, P.O. Box 5050, Burlington, Ontario L7R 4A6.

WATDOC, Water Planning and Management Branch, Environment Canada, 351 St. Joseph Blvd., Hull, Quebec K1A 0E7

b) Contact Person(s), Address (if different from 3a), Telephone Number

M.A. Shaw (416) 336-4957
M. Castonguay (819) 953-1529 (WATDOC)

c) Access Mechanisms

Request by letter or telephone to the responsible organization.
WATDOC - by account with WATDOC and computer terminal.

4. a) Parameters Measured (summarized if too extensive)

- Estimated/measured historical flood information (elevations/flows, if available.
- Estimated frequency-based flood information (elevations/flows).
- Watershed parameters used in hydrologic and hydraulic computer models including land use and soil cover data.
- Vertical and horizontal data, photogrametric data included on topographical maps at 1:2000 and 1:5000 scale.

b) Geographic Coverage

Selected high priority developing communities in Ontario (with flooding or potential flooding problems).

DATABASE: FDRP FLOOD RISK MAPPING FOR ONTARIO - CENV (WATDOC)

c) Data Acquisition Method(s)

Engineering studies by consultants, government agencies and universities; monitoring stations, field surveys and aerial surveys.

d) Geographic Unit(s) of Measurement

Site specific to study area/watershed.

e) Period of Record

1978 to the present.

f) Update Frequency

- Continuously, as studies are completed.

- On the WATDOC system, twice yearly.

g) Database Hardware/Software Configuration

i) Mainframe/PC storage.

ii) WATDOC - Mainframe/PC terminal.

h) Output Format(s) (tables, maps, etc.)

i) Reports and maps, some data on diskette - computer model input.

ii) WATDOC - references to microfiche copies, copies of CISTI library.

5. Restrictions and Conditions

i) None.

ii) WATDOC - user account to access WATDOC database.

6. Price Information

i) Diskettes/tapes requested if this is transfer medium no charges for reasonable requests.

ii) On-line cost of $60/hr; $30/hr after hours and weekends.

7. Corresponding Printed Sources

Information on copies of reports/maps held by Ontario Ministry of Natural Resources and relevant conservation authorities.

8. Languages

English.

DATABASE: FDRP FLOOD RISK MAPPING FOR ONTARIO - CENV (WATDOC)

9. User Aids Available

i) Catalogue of flood risk maps for Ontario.

ii) WATDOC - Information Manual.

10. Suggested Keywords

Flood risk mapping, flooding, flood flows, physiographic data.

11. Additional Information

The data above are updated on the WATDOC database periodically (6-12 months) depending on the amount of new material received. Computer model input data are not usually supplied to WATDOC unless part of hardcopy appendix and is not available from that source on microfiche.

DATABASE: PUBLIC USE DATABASE (PUD)

1. Datafile Name(s)

Not applicable.

2. a) Summary Description of Contents

1. Attendance data for national parks, national historic sites and historic canals.

2. Use information on interpretation programs, camping and gateways (only campground use data will be collected from 1990 onward).

b) Purpose of the Database

1. To provide public information on the use of Canadian Parks Service sites.

2. To provide data for management purposes.

3. a) Name and Address of Responsible Organization

Socio-economic Branch, Canadian Parks Service, Environment Canada, Ottawa, Ontario K1A 0H3.

b) Contact Person(s), Address (if different from 3a), Telephone Number

Dick Stanley (819) 997-6605

c) Access Mechanisms

Through contact with Systems Management Analyst, Socio-economic Information Division (819) 994-1979

4. a) Parameters Measured (summarized if too extensive)

- entries
- visits
- visit-days/visit-hours
- party-nights
- person-nights
- vehicles
- persons

b) Geographic Coverage

National.

DATABASE: PUBLIC USE DATABASE (PUD)

c) Data Acquisition Method(s)

1. Traffic counters
2. Camping permits
3. Observation
4. Pedestrian counters

d) Geographic Unit(s) of Measurement

1. National Parks
2. National historic sites
3. Historic canals

e) Period of Record

Attendance: continuous.

Seasonal facilities: operation season.

f) Update Frequency

Monthly.

g) Database Hardware/Software Configuration

Hard: COMPHQ DESKPRO 286,
HAYES SMARTMODEM 2400,
HP LASERJET Series II.

Soft: SAS/PC, CHARTMASTER, WYLBUR, WORDPERFECT.

h) Output Format(s) (tables, maps, etc.)

Tables and graphs.

5. Restrictions and Conditions

None.

6. Price Information

No charge.

7. Corresponding Printed Sources

1. Canadian Parks Service Monthly Report

2. Canadian Parks Service: Overview and Statistics on Visitor Participation 1987 - 1988

3. Information from the Public Use Database 1987 - 1988.

DATABASE: PUBLIC USE DATABASE (PUD)

8. **Languages**

English/French.

9. **User Aids Available**

User Guide Manual (requires updating).

10. **Suggested Keywords**

1. Park attendance
2. Campground use
3. Historic park attendance
4. Interpretation contacts
5. Park facilities use

DATABASE: BACKGROUND AIR POLLUTION MONITORING NETWORK (BAPMoN)

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   Measures greenhouse gases either continuously or by taking weekly grab samples.

   b) **Purpose of the Database**

   - temporal trends in greenhouse gases
   - atmospheric processes related to sources and sinks
   - prediction of climate impacts

3. a) **Name and Address of Responsible Organization**

   Air Quality Measurement and Analysis Research Division, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario M3H 5T4.

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Dr. Marlene L. Phillips (416) 739-4449
   Dr. Neil Trivett (416) 739-4447

   c) **Access Mechanisms**

   Through responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

   All stations:
   - Carbon dioxide (CO_2)

   Alert station only:
   - Methane (CH_4)
   - CFC's (Freons)
   - Ozone (O_3)
   - Nitrous oxide (N_2O)

   b) **Geographic Coverage**

   West Coast - Cape St. James
   East Coast - Sable Island
   High Arctic - Alert

c) Data Acquisition Method(s)

- flask sampling
- non-dispersive infrared
- gas chromatography

d) Geographic Unit(s) of Measurement

Global background.

e) Period of Record

1975 - ongoing.

f) Update Frequency

Annual.

g) Database Hardware/Software Configuration

Personal computer data stored on hard disk or diskette.

h) Output Format(s) (tables, maps, etc.)

Tables of numbers.

5. Restrictions and Conditions

Access through responsible organization only.

6. Price Information

None.

7. Corresponding Printed Sources

1. Annual Report for the Monitoring Program (first one to be published in August 1990).

2. Data submitted to and published by:
   (a) Carbon Dioxide Information Analysis Center, Oak Ridge, Tennessee
   (b) World Meteological Organization (WMO), Geneva.

8. Languages

- Data contains only numbers
- WMO report is available in French and English

9. User Aids Available

None.

DATABASE: BACKGROUND AIR POLLUTION MONITORING NETWORK (BAPMoN)

10. **Suggested Keywords**

Greenhouse gases
Carbon dioxide
Background air pollution monitoring
Climate change

11. **Additional Information**

1. Flask CO_2 data available since 1975.

2. Continuous CO_2 data and other greenhouse data available only for Alert Station.

3. Inquiries to be addressed to contact persons.

DATABASE: CANADIAN AIR AND PRECIPITATION MONITORING NETWORK (CAPMoN)

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Daily sampling of air and precipitation and ancillary meteorological parameters for acidifying air pollutants and ozone.

b) **Purpose of the Database**

- spatial and temporal variations
- long-term trends
- verification of long-range transport models/processes
- standardization of other networks

3. a) **Name and Address of Responsible Organization**

Air Quality Measurement and Analysis Research Division, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario M3H 5T4.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Dr. Marlene L. Phillips	(416) 739-4449
Mr. Robert J. Vet	(416) 739-4853
Mr. Bill Sukloff	(416) 739-4456
Mr. Stu McNair	(416) 739-4450

c) **Access Mechanisms**

Through responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

Precipitation
- amount
- hydrogen (H^+), sulfate ($SO_4^=$), nitrate (NO_3^-), chlorine (Cl^-)
- sodium (Na^+), potassium (K^+), calcium (Ca^{++}), magnesium (Mg^{++}), ammonium (NH_4^+)

Air
- sulphur dioxide (SO_2)
- nitric acid (HNO_3) (gaseous)
- sulphate ($SO_4^=$), nitrate (NO_3^-), chlorine Cl^-), ammonium (NH_4^-), potassium (K^+)
- ozone (O_3)

b) **Geographic Coverage**

National - 24 stations in rural areas. All provinces and territories except P.E.I. and Yukon.

DATABASE: CANADIAN AIR AND PRECIPITATION MONITORING NETWORK (CAPMoN)

c) Data Acquisition Method(s)

Daily sampling of precipitation in wet-only collectors using plastic bags.

Daily sampling of air using 3-stage filter pack system with teflon, nylon and cellulose filters. Continuous measurement of ozone using the UV absorption technique.

d) Geographic Unit(s) of Measurement

Site specific measurements.
Regionally representative sites.

e) Period of Record

1983 to present.

f) Update Frequency

Annual.

g) Database Hardware/Software Configuration

Mainframe/magnetic tape.

h) Output Format(s) (tables, maps, etc.)

Tables of numbers.

5. Restrictions and Conditions

Access through responsible organization only.

6. Price Information

None.

7. Corresponding Printed Sources

- Annual CAPMoN Data Reports
- ADS (U.S. Atmospheric Deposition System Database) Annual Data Summary
- Database reports from the National Air Pollution Surveillance System (NAPS).

8. Languages

- English and French
- English only

9. User Aids Available

None.

10. Suggested Keywords

Precipitation chemistry, dry deposition, acidic deposition, acid rain, long range transport of air pollution, oxidants.

11. Additional Information

1. Data from all stations not available for the complete time period.
2. Data from this database will also be incorporated in the NATChem database and the U.S. ADS database.
3. Air filter pack information from 11 of the 24 sites.
4. Ozone information from 9 of the 11 sites.

DATABASE: NATIONAL ATMOSPHERIC CHEMISTRY (NATCHEM)

1. Datafile Name(s)

Not applicable.

2. a) Summary Description of Contents

Air and Precipitation Chemistry from all Canadian networks including CAPMoN.

b) Purpose of the Database

- permanent archive for all Canadian atmospheric deposition data
- spatial and temporal deposition patterns/trends
- inputs to ecosystems
- to test efficacy of control programs

3. a) Name and Address of Responsible Organization

Air Quality Measurement and Analysis Research Division, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario M3H 5T4.

b) Contact Person(s), Address (if different from 3a), Telephone Number

Dr. Marlene L. Phillips	(416) 739-4449
Mr. Robert J. Vet	(416) 739-4853
Mr. Chul-Un Ro	(416) 739-4455
Mr. Bill Sukloff	(416) 739-4456

c) Access Mechanisms

Through responsible organization.

4. a) Parameters Measured (summarized if too extensive)

Precipitation
- hydrogen (H^+), sulfate ($SO_4^=$), nitrate (NO_3^-), chlorine (Cl^-)
- sodium (Na^+), potassium (K^+), calcium (Ca^{++}), magnesium (Mg^{++}), ammonium (NH_4^+)

Air
- sulphur dioxide (SO_2), nitric acid (HNO_3), sulfate ($SO_4^=$), nitrate (NO_3^-), chlorine (Cl^-)
- ammonium (NH_4^+), sodium (Na^+), potassium (K^+)

b) Geographic Coverage

National - all provinces and territories except Yukon.

DATABASE: NATIONAL ATMOSPHERIC CHEMISTRY (NATCHEM)

c) Data Acquisition Method(s)

Precipitation
- wet-only collectors
- daily, weekly, monthly sampling

Air
- air filter packs
- 3 stage
- nylon, teflon, cellulose

d) Geographic Unit(s) of Measurement

Site specific.
Some regionally representative.
Some watersheds.

e) Period of Record

1978 to present.

f) Update Frequency

Annual.

g) Database Hardware/Software Configuration

Mainframe - magnetic tape

PC - hard disk
- diskette

h) Output Format(s) (tables, maps, etc.)

Tables, deposition maps.

5. Restrictions and Conditions

Access through responsible organization only.

6. Price Information

None.

7. Corresponding Printed Sources

NATChEM Annual Report.

8. Languages

English (and French eventually).

DATABASE: NATIONAL ATMOSPHERIC CHEMISTRY (NATCHEM)

9. User Aids Available

None.

10. Suggested Keywords

Precipitation Chemistry
Long Range Transport of Air Pollutants
Wet and Dry Deposition

11. Additional Information

1. Data is supplied from Provincial and Federal Networks.

2. U.S. annual summary data is supplied from ADS*

3. Data will ultimately be supplied to ADS*

* U.S. Atmospheric Deposition System (Database)

DATABASE: WORLD OZONE DATABASE

1. Datafile Name(s)

Not applicable.

2. a) Summary Description of Contents

Information on atmospheric ozone concentrations from around the world (troposphere and stratosphere).

b) Purpose of the Database

To support ozone climatology research, to monitor changes in ozone concentrations.

3. a) Name and Address of Responsible Organization

World Ozone Data Centre, Atmospheric Environment Centre, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.

b) Contact Person(s), Address (if different from 3a), Telephone Number:

L.R. Morrison (416) 739-4633

c) Access Mechanisms

Through the responsible organization.

4. a) Parameters Measured (summarized if too extensive)

- Ozone concentrations
  - . Surface ozone
  - . Total ozone
  - . Umkehr observations (vertical observations in the atmosphere)
  - . Ozone sondes (direct measurements using balloons at various altitudes)

- Lidar aerosol observations (atmospheric particulate concentrations using a ground-based laser)

b) Geographic Coverage

Global.

c) Data Acquisition Method(s)

Direct measurements using ground-based and airborne instruments.

d) Geographic Unit(s) of Measurement

Not applicable.

DATABASE: WORLD OZONE DATABASE

e) **Period of Record**

1957 to the present.

f) **Update Frequency**

As required.

g) **Database Hardware/Software Configuration**

Paper files, diskettes, tape.

h) **Output Format(s) (tables, maps, etc.)**

Numbers and reports (see 7)

5. **Restrictions and Conditions**

None.

6. **Price Information**

Charge varies, depending on nature of request.

7. **Corresponding Printed Sources**

Report published bi-monthly "Ozone Data for the World", available from the responsible organization.

8. **Languages**

English and French.

9. **User Aids Available**

None.

10. **Suggested Keywords**

None.

DATABASE: FRESHWATER DATABASE

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   Data on the receiving environment above and below industrial discharges.

   b) **Purpose of the Database**

   To generate data for identifying baseline or environmental impact assessment from industrial discharges.

3. a) **Name and Address of Responsible Organization**

   Environmental Protection, Freshwater Assessment Programs, Environment Canada, Kapilano 100 - Park Royal S., West Vancouver, B.C. V7T 1A2.

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Mr. Bryan Kelso (604) 666-5193

   c) **Access Mechanisms**

   Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

   - Physical and Chemical Water Quality.

   - Sediment analysis for heavy metals.

   - Biological factors
     . primary productivity
     . some heavy metals in biota.

   b) **Geographic Coverage**

   British Columbia where anadromous salmonids are present.

   c) **Data Acquisition Method(s)**

   Individual monitoring stations, field surveys.

   d) **Geographic Unit(s) of Measurement**

   Site specific measurements in watersheds.

DATABASE: FRESHWATER DATABASE

e) **Period of Record**

1982 to the present.

f) **Update Frequency**

Irregularly.

g) **Database Hardware/Software Configuration**

1. Mini-computer based systems.

2. Reports.

h) **Output Format(s) (tables, maps, etc.)**

Tables of numbers.

5. **Restrictions and Conditions**

Requests must proceed through contact person.

6. **Price Information**

Not established at present.

7. **Corresponding Printed Sources**

Regional Program Reports (consult contact person).

8. **Languages**

English.

9. **User Aids Available**

None.

10. **Suggested Keywords**

None.

11. **Additional Information**

During the course of 1990 the database will be converted on to the ORACLE software system.

DATABASE: GREAT LAKES WATER QUALITY (STAR)

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   Data are from the Great Lakes, except Lake Michigan, and are used to monitor the water quality of the Great Lakes.

   b) **Purpose of the Database**

   To identify trends in water quality, identify emerging issues, and assess compliance with objectives of the Great Lakes Water Quality Agreement.

3. a) **Name and Address of Responsible Organization**

   Computing and Programming Section, Research Support Division, National Water Research Institute, Canada Centre for Inland Waters, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario L7R 4A6.

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Mr. Bob Duffield (416) 336-4911

   c) **Access Mechanisms**

   Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

   The following groups of parameters are measured:

   - physical properties (e.g. temp., dissolved oxygen)
   - chemical properties (e.g. trace metals)
   - some biological properties

   The database contains over 300 different parameter codes.

   b) **Geographic Coverage**

   Great Lakes, except Lake Michigan.

   c) **Data Acquisition Method(s)**

   Individual monitoring locations (stations) on the Great Lakes surveyed by ship.

   d) **Geographic Unit(s) of Measurement**

   Site specific measurements.

e) **Period of Record**

1960 to present.

f) **Update Frequency**

Continuous.

g) **Database Hardware/Software Configuration**

Mainframe Cyber computer, using the System 2000 DBMS with many Fortran programs.

h) **Output Format(s) (tables, maps, etc.)**

- listings
- statistical summaries
- plots
- tapes

5. **Restrictions and Conditions**

No confidentiality or access restrictions. Searches are carried out by personnel located at the Canada Centre for Inland Waters.

6. **Price Information**

No charges for reasonable size requests.

7. **Corresponding Printed Sources**

Various research reports utilize the data contained in this database. Generally, the publications contain summary data whereas the database contains the raw data.

8. **Languages**

English.

9. **User Aids Available**

Documentation exists giving the available programs and how to execute the programs.

10. **Suggested Keywords**

- Water Quality
- Great Lakes

DATABASE: SHELLFISH DATABASE

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   A compendium of data on shellfish closures and harvesting areas.

   b) **Purpose of the Database**

   To identify trends in closures of shellfish growing and harvesting areas.

3. a) **Name and Address of Responsible Organization**

   Environmental Protection
   Environment Canada
   Dartmouth, N.S.
   B2Y 2N6

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   John Machell (902) 426-4570

   c) **Access Mechanisms**

   Through the responsible organization or contact person.

4. a) **Parameters Measured (summarized if too extensive)**

   Chemical
   - water quality data
   - pollutant sources in shellfish growing areas

   Biological
   - description of sectors, closures, survey dates, key monitoring stations, bacteriological data.

   b) **Geographic Coverage**

   Coastal waters in New Brunswick, Nova Scotia, Prince Edward Island.

   c) **Data Acquisition Method(s)**

   Field Surveys.

DATABASE: SHELLFISH DATABASE

d) Geographic Unit(s) of Measurement

Shellfish growing and harvesting areas.

e) Period of Record

1979 to the present.

f) Update Frequency

Annually.

g) Database Hardware/Software Configuration

IBM - PC, CBase III software.

h) Output Format(s) (Tables, Maps, etc.)

5. Restrictions and Conditions

None.

6. Price Information

No charge.

7. Corresponding Printed Sources

Several papers and reports are available which include information from the database.

8. Languages

English.

9. Additional Information

1. The entire data base will be transferred to the oracle database management system in the near future.

DATABASE: SHELLDAT, GASPDAT

1. **Datafile Name(s)**

   Numerous Files.

2. a) **Summary Description of Contents**

   Shellfish growing water bacterial quality survey results, pollution sources and descriptions (text).

   b) **Purpose of the Database**

   To monitor bacteriological quality of shellfish growing waters in B.C., to protect human health, and to identify pollution sources to shellfish growing areas.

3. a) **Name and Address of Responsible Organization**

   Environmental Protection, Conservation and Protection, Environment Canada, Kapilano 100, Park Royal, West Vancouver, B.C. V7T 1A2.

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   B. Kay (604) 666-6036
   D. Walker (604) 666-3339

   c) **Access Mechanisms**

   Via contact person.

4. a) **Parameters Measured (summarized if too extensive)**

   - Most probable number (MPN) of fecal coliforms/100 ml at each station;
   - Ancillary data (rainfall, freshwater input and sources, pollution sources, etc.).
   - Salinity
   - Temperature, dissolved oxygen and turbidity (to be added in 1990)

   b) **Geographic Coverage**

   All commercial mollusc and shellfish harvest areas on the westcoast of Canada and some other areas.

   c) **Data Acquisition Method(s)**

   Field surveys.

DATABASE: SHELLDAT, GASPDAT

d) Geographic Unit(s) of Measurement

Latitude and longitude.

e) Period of Record

1971 - present.

f) Update Frequency

Updated continuously.

g) Database Hardware/Software Configuration

Datapoint computer, custom software.

h) Output Format(s) (tables, maps, etc.)

Hardcopy reports, text and tables, various report formats, ASCII files.

5. Restrictions and Conditions

Some restrictions may apply depending on nature of the request.

6. Price Information

No charge for data, a cost will apply when digital maps become available.

7. Corresponding Printed Sources

Contaminated Area Reports for some surveys in recent years, summary status reports will be prepared in the future.

8. Languages

English.

9. User Aids Available

Not applicable.

10. Suggested Keywords

Not applicable.

11. Additional Information

Currently undergoing conversion to Oracle on VAX Computer and link to QuikMap on an MS-DOS PC.

BASE DE DONNÉES: SYSTÈME DE GESTION DES DONNÉES DU PROGRAMME DE SURVEILLANCE DE LA QUALITÉ BACTÉRIOLOGIQUE DES SECTEURS COQUILLIERS

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Données concernant la qualité bactériologique de l'eau dans les secteurs coquilliers au Québec.

   b) **Objet, usages**

   Suivi de la conformité à la règlementation. Gestion du programme.

3. a) **Nom et adresse de l'organisme responsable**

   Direction de la protection de l'environnement, Division du contrôle de l'assainissement des eaux, Environnement Canada, Conservation et Protection, 1179 de Bleury, Montréal, Québec, H3C 3H9.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Réjean de Ladurantaye (514) 283-0196.

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   - Taux de coliformes fécaux.
   - Facteurs hydrologiques et météorologiques

   b) **Région visée**

   Bas Saint-Laurent, Côte Nord, Gaspésie, Iles de la Madeleine.

   c) **Méthode de collecte de données**

   Échantillonnage.

   d) **Unité(s) de mesure géographique(s)**

   Données se rapportant à un point et un secteur.

   e) **Période visée par le données**

   Depuis 1969.

BASE DE DONNÉES: SYSTÈME DE GESTION DES DONNÉES DU PROGRAMME DE SURVEILLANCE DE LA QUALITÉ BACTÉRIOLOGIQUE DES SECTEURS COQUILLIERS

f) Fréquence de mise à jour

Une fois par année.

g) Support (hardware/software)

Micro-ordinateur PC compatible, Autocad et DBase.

h) Présentation (tableaux, cartes, etc.)

Cartographie et tableaux de chiffres.

5. Restrictions et conditions

Aucune.

6. Prix

Aucun.

7. Sources imprimées correspondantes

Aucune.

8. Langue(s)

Français.

9. Aides à l'utilisateur disponibles

Aucune.

10. Mots-clés suggérés

Bactériologie
Mollusques
Secteurs coquilliers
Saint-Laurent
Conformité

11. Renseignements supplémentaires

Le système est en révision. Une amélioration du lien entre le système cartographique et la base de données est prévu d'ici été 1990.

DATABASE: GREAT LAKES SEDIMENT DATA (GLSEDS)

1. Datafile Name(s)

NAQUADAT

2. a) Summary Description of Contents

Physical, chemical and descriptive data for bottom sediment samples collected in all the Great Lakes between 1968 and 1978.

b) Purpose of the Database

Used for research, engineering, planning, assessment by DOE and other federal departments, provincial ministries, consultants, universities.

3. a) Name and Address of Responsible Organization

Lakes Research Branch, National Water Research Institute (NWRI), Canada Centre for Inland Waters (CCIW), 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario L7R 4A6.

b) Contact Person(s), Address (if different from 3a), Telephone Number

Dr. Norman A. Rukavina (416) 336-4880

c) Access Mechanisms

Through the responsible organization.

4. a) Parameters Measured (summarized if too extensive)

- Descriptive physical properties (colour, consistency, texture, etc.)

- Grain-size parameters.

- Chemical parameters:
  . major elements
  . metals
  . persistent organic compounds.

b) Geographic Coverage

Great Lakes.

c) Data Acquisition Method(s)

1) Field surveys based on sediment sampling.

2) Laboratory analysis of grain size and chemistry.

DATABASE: GREAT LAKES SEDIMENT DATA (GLSEDS)

d) Geographic Unit(s) of Measurement

Individual sites described as latitude/longitude.

e) Period of Record

Varies by lake basin.
Total record span is 1968 - 1978.

f) Update Frequency

No new data are being entered; editing being done on existing data set.

g) Database Hardware/Software Configuration

Mainframe Cyber computer using the System 2000 DBMS.

h) Output Format(s) (tables, maps, etc.)

Listings and Ascii files suitable for import by microcomputer spreadsheets, databases.

5. Restrictions and Conditions

No confidentiality restrictions. Access by NWRI personnel only.

6. Price Information

No charges for standard requests of reasonable size.

7. Corresponding Printed Sources

Summarized and interpreted data appear in a large number of CCIW reports and scientific papers.

8. Languages

English.

9. User Aids Available

Documentation describing contents, format and access in preparation.

10. Suggested Keywords

- Great Lakes
- bottom sediments
- sedimentology
- geochemistry

BASE DE DONNÉES: QUALITÉ DES SÉDIMENTS DANS LE FLEUVE SAINT-LAURENT

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Données provenant d'études sur la qualité physico-chimique et granulométrique des sédiments.

   b) **Objet, usages**

   Référence et suivi de la qualité des sediments dans le fleuve Saint-Laurent, et la rivière Saguenay.

3. a) **Nom et adresse de l'organisme responsable**

   Centre Saint-Laurent, Direction du développement technologique, Section des technologies de restauration, Environnement Canada, Conservation et Protection, 105 rue McGill, bureau 400, Montréal, Québec, H2Y 2E7.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Lucie Olivier (514) 496-2272.

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   - Granulométrie
   - Métaux
   - Composés organiques
   - Pesticides

   b) **Région visée**

   Fleuve Saint-Laurent, et rivière Saguenay.

   c) **Méthode de collecte de données**

   Recherche bibliographique.

   d) **Unité(s) de mesure géographique(s)**

   Données se rapportant à un point.

   e) **Période visée par le données**

   Depuis 1977.

f) **Fréquence de mise à jour**

Une fois par année.

g) **Support (hardware/software)**

Micro-ordinateur PC compatible, Logiciel Foxbase III.

h) **Présentation (tableaux, cartes, etc.)**

Tableaux de chiffres.

5. **Restrictions et conditions**

Toutes les informations de la base ne sont pas disponibles (validation nécessaire).

6. **Prix**

Aucun.

7. **Sources imprimées correspondantes**

Aucune.

8. **Langue(s)**

Français.

9. **Aides à l'utilisateur disponibles**

Guide d'utilisation.

10. **Mots-clés suggérés**

- Polluants
- composés organiques
- sédiments
- bibliographie
- métaux
- granulométrie
- pesticides

11. **Renseignements Supplémentaires**

Les données seront disponibles au cours de 1990.

DATABASE: SEDIMENT DATABASE

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   Database contains physical, metal and organic parameters of sediment on nearshore zones in the Beaufort Sea.

   b) **Purpose of the Database**

   To monitor the effects of the oil and gas industry on the nearshore marine environment.

3. a) **Name and Address of Responsible Organization**

   Environmental Protection, Conservation and Protection, Box 370, Yellowknife, Northwest Territories X1A 2N3.

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Ed Porter (403) 873-3456

   c) **Access Mechanisms**

   Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

   - trace metals (mercury, lead, cadmium, zinc, arsenic, iron, nickel)
   - total organic carbon
   - sediment particle size
   - hydrocarbons (n-alkanes, 16 polyaromatic hydrocarbons)

   b) **Geographic Coverage**

   Tuktoyaktuk Harbour, Hutchison Bay, McKinley Bay, and Southern Beaufort Sea in the Northwest Territories.

   c) **Data Acquisition Method(s)**

   Field surveys using bottom grab and core sampling.

   d) **Geographic Unit(s) of Measurement**

   Individual sampling stations recorded by latitude and longitude.

   e) **Period of Record**

   Data collected in 1982, 1983, 1984.

DATABASE: SEDIMENT DATABASE

f) **Update Frequency**

No updates planned.

g) **Database Hardware/Software Configuration**

Microcomputer with turbopascal and D-BASE III software.

h) **Output Format(s) (tables, maps, etc.)**

Tables, maps, DBASE III files.

5. **Restrictions and Conditions**

None.

6. **Price Information**

No charge.

7. **Corresponding Printed Sources**

1. Can Test Ltd. 1985. Chemical analysis of samples collected for Beaufort Sea Nearshore Monitoring Program, 1984. Report prepared for EPS, NWT District Office.

2. Yunker, M.B. 1986. Final report: 1982-1983 Beaufort Sea Shorebase Monitoring Program: Statistical analysis and recommendations for future programs. Report prepared for Indian and Northern Affairs Canada, Water Resources Division, Yellowknife, N.W.T.

8. **Languages**

English.

9. **User Aids Available**

None.

10. **Suggested Keywords**

Environmental quality - nearshore marine sediments
Nearshore marine sediments - contaminants

BASE DE DONNÉES: BIBLIOGRAPHIE SIGNALITIQUE SUR LES PRÉCIPITATIONS ACIDES

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Collection de 1600 documents traitant des précipitations acides.

   b) **Objet, usages**

   Répertoire de documents classés en fonction des auteurs et des sujets traités dans les documents (32 catégories).

3. a) **Nom et adresse de l'organisme responsable**

   Environnement Canada, Direction des eaux intérieures, 1141 route de l'Église, 8e étage, Sainte-Foy, QC G1V 4H5.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Jean-Yves Charette (418) 648-3921.

   c) **Mécanismes d'accès**

   Accès manuel par fiche d'auteurs ou catalogue des sujets répertoriés (32 catégories).

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   Auteur, titre, source, objet de l'article ou du document (32 catégories).

   b) **Région visée**

   Mondial

   c) **Méthode de collecte de données**

   Sélection des documents qui feront partie de la collection à partir d'un service de revue d'article CAN/SDI.

   d) **Unité(s) de mesure géographique(s)**

   Aucune.

   e) **Période visée par les données**

   1970 - 1988

BASE DE DONNÉES: BIBLIOGRAPHIE SIGNALITIQUE SUR LES PRÉCIPITATIONS ACIDES

f) **Fréquence de mise à jour**

Irrégulière avec publication d'un catalogue de références au besoin (1 fois par 2 ans environ).

g) **Support (hardware/software)**

Pour fin d'édition du catalogue les références sont compilées sur micro-ordinateur IBM-PC compatible.

h) **Présentation (tableaux, cartes, etc.)**

Ne s'applique pas.

5. **Restrictions et conditions**

Consultation des documents sur place seulement.

6. **Prix**

Consultation sur place sans frais. Répertoire gratuit sur demande.

7. **Sources imprimées correspondantes**

Banque ACIDOC. Sauf que les documents répertoriés sont disponibles sur place dans notre cas.

8. **Langue(s)**

Langue d'origine des documents.

9. **Aides à l'utilisateur disponibles**

Le catalogue de la bibliographie signalitique.

10. **Mots-clés suggérés**

Bibliographie, précipitations acides.

BASE DE DONNÉES: BULLETIN pH

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Date, quantité de précipitations, mesure du pH.

   b) **Objet, usages**

   Compilation de statistiques mensuelles/saisonnières et annuelles.

3. a) **Nom et adresse de l'organisme responsable**

   Service de l'Environnement Atmosphérique, Services scientifiques,
   100 Alexis-Nihon, Suite 300, Ville St-Laurent (Québec) H4M 2N8.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Gilles Desautels (514) 283-1107

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisation responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   - date
   - quantité de précipitations
   - mesure du pH

   b) **Région visée**

   Est du Canada:

   1) Ontario (Longwood, Dorset, Chalk River)
   2) Québec (Sutton, Forêt Montmorancy)
   3) Nouvelle-Écosse (Kejimkujik)

   c) **Méthode de collecte de données**

   Stations d'échantillonnage.

   d) **Unité(s) de mesure géographique(s)**

   Résultat ponctuel, quotidien.

   e) **Période visée par les données**

   1985 à aujourd'hui.

BASE DE DONNÉES: BULLETIN pH

f) **Fréquence de mise à jour**

Mensuel.

g) **Support (hardware/software)**

Fichier texte sur IBM-PC.

h) **Présentation (tableaux, cartes, etc.)**

Données seules.

5. **Restrictions et conditions**

Aucune restriction sur la disponibilité. Mise en garde à l'effet qu'il n'y a aucun contrôle de qualité sur ces données.

6. **Prix**

Prix selon le tarif gouvernemental de la politique de recouvrement des coûts.

7. **Sources imprimées correspondantes**

Le Réseau Canadien d'échantillonnage des précipitations et de l'air, publie des valeurs ayant subi un contrôle de qualité à ces mêmes endroits (sauf Dorset).

8. **Langue(s)**

Publications annuelles internes en français.

9. **Aides à l'utilisateur disponibles**

Aucune.

10. **Mots-clés suggérés**

Pluies acides pH.

11. **Renseignements supplémentaires**

Ce réseau existe à titre informatif seulement. La validité scientifique est discutable à cause de l'absence d'un contrôle de la qualité.

DATABASE: SOUTH COAST BRITISH COLUMBIA (SCBC)

1. **Datafile Name(s)**

   Not applicable.

2. a) **Summary Description of Contents**

   Event sampling of precipitation chemistry and analysis for major ions. Some trace metal analysis was also performed.

   b) **Purpose of the Database**

   To monitor precipitation chemistry in the lower mainland, southern areas of Vancouver Island and the Gulf Islands.

3. a) **Name and Address of Responsible Organization**

   Scientific Services Division, Pacific Region, Atmospheric Environment Service, No. 700, 1200 West 73rd Avenue, Vancouver, B.C. V6P 6H9.

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   B. Thomson (604) 666-2184

   c) **Access Mechanisms**

   Through responsible agency.

4. a) **Parameters Measured (summarized if too extensive)**

   - acidity
   - trace metals
   - nitrate
   - sodium
   - magnesium
   - sulphate
   - chloride
   - potassium
   - calcium
   - ammonia

   b) **Geographic Coverage**

   South coast of British Columbia.

   c) **Data Acquisition Method(s)**

   Individual monitoring stations.

   d) **Geographic Unit(s) of Measurement**

   Site specific measurements.

DATABASE: SOUTH COAST BRITISH COLUMBIA (SCBC)

e) **Period of Record**

1983 to 1986. Specific range varies among sites.

f) **Update Frequency**

Updating was done on an event basis hence irregularly.

g) **Database Hardware/Software Configuration**

Mainframe/ micro.

h) **Output Format(s) (tables, maps, etc.)**

Data in tabular form on magnetic tape or diskette.

5. **Restrictions and Conditions**

No restrictions.

6. **Price Information**

Cost recovery policy.

7. **Corresponding Printed Sources**

None.

8. **Languages**

English.

9. **User Aids Available**

Information through responsible agency.

10. **Suggested Keywords**

Atmospheric deposition
Precipitation chemistry
Wet deposition

11. **Additional Information**

1. Data is of short duration concentrating on episode or event analysis.

2. The project which supported this database was completed in 1986, hence the database is no longer updated.

DATABASE: ENVIRONMENTAL CONTAMINANTS IN SEABIRDS

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Data on contaminant concentrations in seabirds.

b) **Purpose of the Database**

To monitor trends in contaminant concentrations in seabirds and to determine threats to their health.

3. a) **Name and Address of Responsible Organization**

Canadian Wildlife Service
Environment Canada
Fredericton, N.B.
E3B 4Z9

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Peter Pearse (506) 452-3086

c) **Access Mechanisms**

Through the responsible organization or contact person.

4. a) **Parameters Measured (summarized if too extensive)**
- Levels of DDT, PCBs and other organohalogen compounds in selected canadian seabirds.

b) **Geographic Coverage**

Atlantic provinces - seabirds colonies in coastal areas and offshore islands.

c) **Data Acquisition Method(s)**

Egg collection at site.

d) **Geographic Unit(s) of Measurement**

Specimen specific (egg, tissue).

e) **Period of Record**

1968 to the present.

DATABASE: ENVIRONMENTAL CONTAMINANTS IN SEABIRDS

f) Update Frequency

Every 4 years.

g) Database Hardware/Software Configuration

Digital.

h) Output Format(s) (tables, maps, etc.)

Tabular data.

5. Restrictions and Conditions

N[illegible].

6. Price Information

No charge.

7. Corresponding Printed Sources

Several articles have been published in the scientific literature which summarize parts of the data in the database; among these:

- Pearce, P.A., D.B. Peakall, and L.M. Reynolds. 1979. Shell thinning and residues of organochlorines and mercury in seabird eggs, eastern Canada, 1970-76. Pesticides Monitoring Journal 13: 61-68.

- Pearce, P.A., J.E. Elliott, D.B. Peakall, and R.J. Norstrom. 1989. Organochlorine contaminants in eggs of seabirds in the northwest Atlantic, 1968-1984. Environmental Pollution 56: 217-235.

8. Languages

English.

9. Additional Information

1. The data are useful as an indicator of spatial and temporal trends in levels of organic contaminants in the environment.

DATABASE: IMPACTS OF PESTICIDES ON SONGBIRDS

1. Datafile Name(s)

Not applicable.

2. a) Summary Description of Contents

Data on measures of biological response of songbirds to pesticides.

b) Purpose of the Database

To research the impacts of forest spraying on songbirds.

3. a) Name and Address of Responsible Organization

Canadian Wildlife Service
Environment Canada
P.O. Box 400
Fredericton, N.B.
E3B 4Z9

b) Contact Person(s), Address (if different from 3a), Telephone Number

Peter Pearce and Dan Busby (506) 452-3086

c) Access Mechanisms

Through the responsible organization or contact persons.

4. a) Parameters Measured (summarized if too extensive)

In songbirds:
- brain acetyl cholinesterase
- reproductive success
- growth rate of chicks

b) Geographic Coverage

New Brunswick and Newfoundland.

c) Data Acquisition Method(s)

Field collection of specimens.

d) Geographic Unit(s) of Measurement

Individual songbirds.

DATABASE: IMPACTS OF PESTICIDES ON SONGBIRDS

e) Period of Record

1977 to the present.

f) Update Frequency

Most summers.

g) Database Hardware/Software Configuration

Some data available in DBase files; hardcopy - data files and reports.

h) Output Format(s) (tables, maps, etc.)

Numerous technical publications (see 7), tables of numbers.

5. Restrictions and Conditions

None.

6. Price Information

No charge.

7. Corresponding Printed Sources

1. W.R. Ernst, P.A. Pearce and T.L. Pollock, editors, 1989. "Environmental Effects of Fenitrothion Use in Forestry: impacts on insect Pollinators, Songbirds and Aquatic Organisms". Environment Canada, Conservation and Protection, Atlantic Region.

2. Busby, D.G., L.M. White and P.A. Pearce. In press. Effects of Aerial Spraying of Fenitrothion on Breeding White-throated Sparrows. Journal of Applied Ecology.

3. Busby, D.G. and L.M. White. In press. Factors Influencing Variability in Brain Acetylcholinesterase Activity in Songbirds Exposed to Aerial Fenitrothion Spraying. To be published in special publication of "cholinesterase symposium" held at annual meeting of the Society of Environmental Toxicology and Chemistry, Toronto, November 1989.

8. Languages

English.

9. User Aids Available

None.

DATABASE: LRTAP BIOMONITORING SITES

1. **Datafile Name(s)**

   Not applicable

2. a) **Summary Description of Contents**

   Information on waterfowl productivity, water chemistry, fish status and morphological data.

   b) **Purpose of the Database**

   To monitor the effects of varying deposition rates of airborne pollutants on waterfowl populations and aquatic ecosystems.

3. a) **Name and Address of Responsible Organization**

   Canadian Wildlife Service
   Environment Canada
   49 Camelot Drive
   Nepean, Ontario K1A 0H3

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Don McNicol (613) 952-2409

   c) **Access Mechanisms**

   Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

   Biotic:

   - Waterfowl & Loon density
   - broods & young produced
   - fish status

   Aquatic:

   - pH, alkalinity, conductivity
   - major ions
   - dissolved organic carbon
   - total phosphorous
   - water color
   - lake size, length, location and depth

   b) **Geographic Coverage**

   Ontario
   Muskoka - 232 lakes
   Algoma - 234 lakes

DATABASE: LRTAP BIOMONITORING SITES

c) **Data Acquisition Method(s)**

- waterfowl production field surveys
- fish sampling surveys
- water sampling

d) **Geographic Unit(s) of Measurement**

Lakes, open water bodies.

e) **Period of Record**

1988 to present

f) **Update Frequency**

Yearly

g) **Database Hardware/Software Configuration**

SAS P.C. based; SPANS

h) **Output Format(s) (tables, maps, etc.)**

Not yet determined

5. **Restrictions and Conditions**

None expected.

6. **Price Information**

Not yet determined.

7. **Corresponding Printed Sources**

Not yet determined.

8. **Languages**

English.

9. **User Aids Available**

Will be developed.

10. **Suggested Keywords**

bio-monitoring
waterfowl - loons
LRTAP

DATABASE: LRTAP BIOMONITORING SITES

11. **Additional Information**

1. Food chain monitoring will be conducted on 20 lakes per area.

2. This database is presently being developed, based on aquatic invertebrates and fish sampling methods developed in previous studies.

3. Database completion is expected by Spring of 1992.

DATABASE: NATIONAL PARK BIOPHYSICAL INVENTORIES

1. **Datafile Name(s)**

Numerous datafiles organized by national park.

2. a) **Summary Description of Contents**

Biophysical Inventory Land Units with geological, geomorphological soils, vegetation, hydrology and in some cases wildlife data organized by biophysical land units within Canadian national parks.

b) **Purpose of the Database**

To record biophysical data for national park planning and management purposes; also to provide baseline data for monitoring purposes.

3. a) **Name and Address of Responsible Organization**

Natural Resources Branch
National Parks
Canadian Parks Service
Environment Canada
Les Terrasses de la Chaudière
10 Wellington Street, Room 208
Hull, Quebec
K1A 0H3

and Regional Offices of the Canadian Parks Service (see 11).

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

David M. Lohnes (address in 3a) Tel.(819) 994-2639; and contact persons in each of the five Canadian Parks Service regional offices (see 11).

c) **Access Mechanisms**

Through the contact persons; also, data on some national parks available through the Canadian Soil Information System (CANSIS) of Agriculture Canada and the Canada Land Data System (CLDS) of Environment Canada.

4. a) **Parameters Measured (summarized if too extensive)**

- Vegetation cover/herbaceous and crown
- Soils
- Hydrology
- Geomorphological features
- Special features
- Wildlife

b) **Geographic Coverage**

Canadian National Parks, see 11.

DATABASE: NATIONAL PARK BIOPHYSICAL INVENTORIES

c) **Data Acquisition Method(s)**

- Air photo analysis
- Ground truthing
- Biophysical surveys
- Literature reviews
- Resource Studies

d) **Geographic Unit(s) of Measurement**

Scales vary with size and location of park.

e) **Period of Record**

Varies among national parks, data collection in national parks began in the early 1970's.

f) **Update Frequency**

Presently updated in an opportunistic fashion.

g) **Database Hardware/Software Configuration**

SPANS Geographic Information System (GIS)
Canadian Soil Information System (CANSIS)
Canada Land Data System (CLDS)

h) **Output Format(s) (tables, maps, etc.)**

Maps, biophysical descriptions, GIS, numerous reports.

5. **Restrictions and Conditions**

None.

6. **Price Information**

Some costs may apply, depending on the request for information.

7. **Corresponding Printed Sources**

Numerous reports are available on biophysical resources in Canadian national parks.

8. **Languages**

English in all regions except Quebec where data are in French.

9. **User Aids Available**

None.

DATABASE: NATIONAL PARK BIOPHYSICAL INVENTORIES

10. Suggested Keywords

None.

11. Additional Information

A. Ecological Databases for National Parks

	Park	Sq.Km	Status
	Auyuittuq	21,471.1	mapped
**	Banff	6,640.8	CANSIS
	Bruce Peninsula	est. 270.0	new park
**	Cape Breton Highlands	950.5	CLDS
**	Elk Island	194.3	mapped
**	Forillon	240.4	CLDS
	Fundy	205.9	CLDS
	Georgian Bay Islands	25.3	mapped
**	Glacier	1,349.4	mapped
	Grasslands	906.5	preliminary
	Gros Morne	1,942.5	CLDS
	Jasper	10,878.0	CANSIS
	Kejimkujik	381.5	mapped
	Kluane	22,015.0	preliminary
**	Kootenay	1,406.4	CANSIS
**	Kouchibouguac	238.8	CANSIS
	La Mauricie	543.9	mapped
	Mingan Archipelago	93.6	preliminary
	Mount Revelstoke	262.6	mapped
	Nahanni	4,765.6	CLDS
	Ellesmere Island	39,500.0	preliminary
**	Northern Yukon	10,170.0	CLDS
	Pacific Rim	388.5	preliminary
	Point Pelee	15.5	mapped
	Prince Albert	3,874.6	CANSIS
	Prince Edward Island	19.9	mapped
**	Pukaskwa	1,877.8	CLDS
	Riding Mountain	2,975.9	mapped
	Saint Lawrence Islands	5.2	mapped
	South Moresby and estimated marine area	4,500.0	new park
	Terra Nova	396.5	CLDS
	Waterton lakes	525.8	mapped
	Wood Buffalo	44,807.0	CLDS
	Yoho	1,313.1	mapped

Total area on CANSIS	21,393.4	Total Area
on CLDS	65,595.0	185,151.9 Sq.Km
on neither	98,163.5	

** Data base available on the SPANS Geographic Information System.

B. Regional Offices of the Canadian Parks Service responsible for National Parks data.

ATLANTIC REGION PARKS:
- Cape Breton Highlands
- Fundy
- Gros Morne
- Prince Edward Island
- Kejimkujik
- Kouchibouquac

Don Harris,
Chief, Natural Resource Conservation
Atlantic Region
Canadian Parks Service
Historic Properties
Upper Water Street
Halifax, Nova Scotia
B3J 1S8
Tel. (902) 426-3401

RÉGION DU QUÉBEC PARCS:
- Forillon
- La Mauricie
- Mingan Archipelago

Alain Dufresne
Chef, Conservation des ressources naturelles
Région du Québec
Service canadien des parcs
3, rue Buade
C.P. 6060
Haute-Ville, Québec
G1R 4V7
Tel. (418) 648-4049

ONTARIO REGION PARKS:
- Bruce Peninsula
- Georgian Bay Islands
- Point Pelee
- Pukaskwa
- Saint Lawrence Islands

Luce Charon
Chief, Natural Resource Conservation
Ontario Region
Canadian Parks Service
111 Water Street
Cornwall, Ontario
K6H 4V7
Tel. (613) 938-5931

DATABASE: NATIONAL PARK BIOPHYSICAL INVENTORIES

PRAIRIE AND NORTHERN REGION PARKS:

- Auyuittuq
- Grasslands
- Kluane
- Nahanni
- Ellesmere Island
- Northern Yukon
- Prince Albert
- Riding Mountain
- Wood Buffalo

Doug Kerfoot
Chief, Natural Resource Conservation
Prairie and Northern Region
Canadian Parks Service
457 Main Street, 4th floor
Winnipeg, Manitoba
R3B 3E8
Tel. (204) 983-3113

WESTERN REGION PARKS:

- Banff
- Elk Island
- Glacier
- Jasper
- Kootenay
- Mount Revelstoke
- Pacific Rim
- South Moresby
- Waterton Lakes
- Yoho

Don MacMillan
Chief, Natural Resources Conservation
Western Region
Canadian Parks Service
P.O. Box 2989
220-4th Avenue S.E.
Postal Station "M"
Calgary, Alberta
T2P 3H8
Tel. (403) 292-4458

BASE DE DONNÉES: PARC

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   Données sur le réseau québécois des parcs nationaux et lieux historiques nationaux.

   b) **Objet, usages**

   Organiser et rendre accessible les documents qui ont servi à la réalisation des études entreprises par le Service canadien des parcs, région du Québec et ceux qui ont été produits par ce dernier.

3. a) **Nom et adresse de l'organisme responsable**

   Service canadien des parcs, Région du Québec, 3 rue Buade - C.P. 6060, Succ. "Haute-Ville", Québec (Qc) G1R 4V7.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Cécile Morin (418) 648-7380

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   Références bibliographiques.

   b) **Région visée**

   Québec (Province).

   c) **Méthode de collecte de données**

   - achats de volumes
   - dépots de travaux de recherche

   d) **Unité(s) de mesure géographique(s)**

   Sans objet.

   e) **Période visée par les données**

   1976 à ce jour.

   f) **Fréquence de mise à jour**

   Tous les mois.

BASE DE DONNÉES: PARC

g) **Support (hardware/software)**

Micro-ordinateur / logiciel EDIBASE.

h) **Présentation (tableaux, cartes, etc.)**

Références bibliographiques.

5. **Restrictions et conditions**

Pas de restrictions quant à l'accès ou la confidentialité.

6. **Prix**

Pas de frais.

7. **Sources imprimées correspondantes**

Aucune.

8. **Langue(s)**

La base de données comprend des documents en anglais et en français. Mais l'interrogation se fait en français.

9. **Aides à l'utilisateur disponibles**

Répertoire de vedettes-matières de l'Université Laval.

10. **Mots-clés suggérés**

Sans objet

DATABASE: PROTECTED AREAS DATABASE

1. **DATAFile Name(s)**

   Not applicable

2. a) **Summary Description of Contents**

   List of protected environmental sites across Canada which would be considered to be managed and classified as per IUCN classifications for protected areas (see 9).

   b) **Purpose of the Database**

   To inventory national parks and equivalent managed/protected areas across Canada.

3. a) **Name and Address of Responsible Organisation**

   National Parks Systems Branch
   Canadian Parks Service, Environment Canada
   Les Terrasses de la Chaudière
   10 Wellington St.
   Hull, Quebec K1A 0H3

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   C. Mondor (819) 994-3012

   c) **Access Mechanisms**

   Through the responsible organization

4. a) **Parameters Measured (summarized if too extensive)**

   For each protected area:

   . latitude & longitude
   . province
   . name
   . jurisdiction
   . source of data
   . type of area
   . legal protection
   . IUCN category
   . area
   . year established
   . authorization legislation

DATABASE: PROTECTED AREAS DATABASE

. management authority
. natural region

b) Geographic Coverage

Mainland Canada & islands.

c) Data Acquisition Method(s)

Survey of federal, provincial and territorial departments.

d) Geographic Unit(s) of Measurement

Site specific

e) Period of Record

List of Canadian protected areas as of March 1990

f) Update Frequency

Annually

g) Database Hardware/Software Configuration

IBM-PC or compatible, Foxbase.

h) Output Format(s) (tables, maps, etc.)

Tables and maps

5. Restrictions and Conditions

None

6. Price Information

Undetermined

7. Corresponding Printed Sources

Not applicable

8. Language(s)

English

9. Additional Information

1. This database is being prepared and verified, therefore not available at this time.

DATABASE: PROTECTED AREAS DATABASE

2. IUCN Protected Area Classifications:

I. Scientific Reserve/Strict Nature Reserve
II. National Park
III. Natural Monument/Natural Landmark
IV. Managed Nature Reserve/Widlife Sanctuary
V. Protected Landscape or Seascape
VI. Resource Reserve
VII. Natural Biotic Area/Anthropological Reserve
VIII. Multiple-use Management Area/Managed Resource Area
IX. Biosphere Reserve
X. World Heritage Site

IV. OTHER DATABASES

DATABASE: ARTIFACT INFORMATION SYSTEM - AIS

1. Datafile Name(s)

Not applicable

2. a) Summary Description of Contents

Automated inventory control and information retrieval for historic objects and reproductions present at Canadian Parks Service (CPS) Historic Sites and National Parks.

b) Purpose of the Database

Location, research and management of information pertaining to historic artifacts and reproductions in the CPS collection.

3. a) Name and Address of Responsible Organization

Interpretive Collections Division
Interpretation Branch
National Historic Parks and Sites Directorate
Canadian Parks Service
2630 Sheffield Road
Ottawa, Ontario
K1A 0H3

b) Contact Person(s), Address (if different from 3a), Telephone Number

Rodger McNicoll (613) 993-5526

c) Access Mechanisms

Through the contact organization

4. a) Parameters Measured (summarized if too extensive)

The following fields are captured:
- registration number
- method/date of acquisition
- period
- free text/description
- condition
- location/date
- historic object or reproduction

b) Geographic Coverage

National; all historic object and reproductions holdings are identified for all site, regional and headquarters collections.

DATABASE: ARTIFACT INFORMATION SYSTEM - AIS

c) **Data Acquisition Method(s)**

Through each regional and headquarters collections management unit.

d) **Geographic Unit(s) of Measurement**

The physical location for each object and reproduction is identified.

e) **Period of Record**

Database covers period of historic use of objects (i.e. ranging from pre-European settlement, early Canadian settlement to present)

f) **Update Frequency**

As required (i.e. new objects acquired and inventories reviewed).

g) **Database Hardware/Software Configuration**

Departmental mainframe (AES-Downsview) running on M204 model database; linked by Datapac communications lines to PHQ and regional offices (each has a terminal and slave printer)

h) **Output Format(s) (tables, maps, etc.)**

Three formats of information:
(1) registration
(2) transaction file
(3) support tables (year end stats, inventories and nomenclature)

5. **Restrictions and Conditions**

No restriction on information reporting but restrictions on updating.

6. **Price Information**

Cost recovery policy

7. **Corresponding Printed Sources**

None

8. **Languages**

English and French

9. **User Aids Available**

User manuals, database documentation, hierarchival authority list.

10. **Suggested Keywords**

Historic objects; reproductions; artifacts; collection management.

BASE DE DONNÉES: BANQUE BIBLIOGRAPHIQUE SUR LES RESSOURCES ET LES USAGES DU FLEUVE SAINT-LAURENT

1. **Noms des fichiers**

   Sans objet.

2. a) **Brève description du contenu**

   References bibliographiques sur les ressources et usages du fleuve Saint-Laurent.

   b) **Objet, usages**

   Retracer les études effectuées sur le fleuve Saint-Laurent et le Saguenay.

3. a) **Nom et adresse de l'organisme responsable**

   Centre Saint-Laurent, Direction du développement technologique, Section des technologies de restauration, Environnement Canada, Conservation et Protection, 105 rue McGill, bureau 400, Montréal, Québec, H2Y 2E7.

   b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

   Lucie Olivier (514) 496-2272.

   c) **Mécanismes d'accès**

   Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

   References bibliographiques.

   b) **Région visée**

   Fleuve Saint-Laurent et rivière Saguenay.

   c) **Méthode de collecte de données**

   Recherche bibliographique.

   d) **Unité(s) de mesure géographique(s)**

   Données se rapportant à des secteurs du fleuve Saint-Laurent.

BASE DE DONNÉES: BANQUE BIBLIOGRAPHIQUE SUR LES RESSOURCES ET LES USAGES DU FLEUVE SAINT-LAURENT

e) **Période visée par le données**

Depuis 1975.

f) **Fréquence de mise à jour**

Une fois par année.

g) **Support (hardware/software)**

Micro-ordinateur PC compatible, Logiciel dBASE III.

h) **Présentation (tableaux, cartes, etc.)**

Listes de références.

5. **Restrictions et conditions**

Aucune.

6. **Prix**

Aucun.

7. **Sources imprimées correspondantes**

Aucune.

8. **Langue(s)**

Français ou anglais (selon la référence).

9. **Aides à l'utilisateur disponibles**

Guide d'utilisation.

10. **Mots-clés suggérés**

- faune, flore, eau, sédiment, industrie, navigation, récréation
- pollution/composantes bio-physiques

11. **Renseignements supplémentaires**

Un accès direct à la base de données par terminal est prévu d'ici l'été 1990.

DATABASE: CANADIAN INVENTORY OF HISTORIC BUILDINGS (CIHB)

1. **Datafile Name(s)**

Historic Sites and Monuments Board of Canada (HSMBC)
Federal Heritage Buildings Review Office (FHBRO-incl. register of Federal Heritage Buildings).

2. a) **Summary Description of Contents**

Architectural, historical and geographical information on building in Canada.

b) **Purpose of the Database**

Support for the HSMBC and FHBRO and to serve the general public. FHBRO Register serves other federal departments.

3. a) **Name and Address of Responsible Organization**

Canadian Inventory of Historic Buildings
Canadian Parks Service
Les Terrasses de la Chaudière
Hull, Québec
K1A 0H3

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Richard Martineau (819) 994-2867

c) **Access Mechanisms**

Through contact person.

4. a) **Parameters Measured (summarized if too extensive)**

- Architectural Features
- Historical Data
- Geographical Location
- Evaluation of federally owned buildings
- HSMBC recommendations and related building data
- Data related to thematic studies (ex. railway stations, Industrial-Manufacturing)
- Designations of Federal Heritage Buildings

b) **Geographic Coverage**

National (Newfoundland to Yukon)

c) **Data Acquisition Method(s)**

Field Surveys
- 190,000 records
Volunteer Survey-information exchange
Extraction from researched sources
Recommendations of HSMBC and FHBRO

DATABASE: CANADIAN INVENTORY OF HISTORIC BUILDINGS (CIHB)

d) **Geographic Unit(s) of Measurement**

Not applicable

e) **Period of Record**

- initially pre-1914 buildings
- the inventory now records information on all buildings

f) **Update Frequency**

On-going as information and research is received.

g) **Database Hardware/Software Configuration**

Mainframe - IBM/COBOL, CROSSTALK Micro-Compaq and Toshiba/D-Base IV, Wordperfect, Symphony.

h) **Output Format(s) (tables, maps, etc.)**

Printed reports - encoded or verbalized, also, photographs, maps, plans, research documents, etc.

5. **Restrictions and Conditions**

Some restrictions may apply.

6. **Price Information**

- Often based on information exchange agreement
- No charge for reasonably sized requests

7. **Corresponding Printed Sources**

HSMBC - Catalogue of Extant Buildings in Canada
- refers to National Historic Sites - buildings

8. **Languages**

English and French

9. **User Aids Available**

Exterior Recording Training Manual

10. **Additional Information**

Several of the microcomputer applications are extended subsets with additional researched information, e.g. the Data verification (DV) system relating to research documents and the National Parks Building Database. Also, a database on Heritage Contacts and Industrial/Manufacturing Complexes in Canada is available.

BASE DE DONNÉES: GESTION DES DONNÉES RELATIVES AUX MESURES DE PLOMB DANS L'ESSENCE - ESSENCE

1. **Noms des fichiers**

Sans objet.

2. a) **Brève description du contenu**

Résultats d'échantillonnage de plomb dans diverses stations services au Québec.

b) **Objet, usages**

Contrôle du règlement régissant les taux de plomb dans l'essence.

3. a) **Nom et adresse de l'organisme responsable**

Direction de la protection de l'environnement, Division de l'air, Environnement Canada, 1179 de Bleury, Montréal, Québec, H3B 3H9.

b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

Lucie Boisjoly (514) 283-0191.

c) **Mécanismes d'accès**

Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

Concentrations de plomb dans l'essence.

b) **Région visée**

Province de Québec.

c) **Méthode de collecte de données**

Réseau d'échantillonnage (variable dans le temps).

d) **Unité(s) de mesure géographique(s)**

Chaque échantillon correspond à une station service.

e) **Période visée par le données**

Depuis 1983.

f) **Fréquence de mise à jour**

Une fois par année.

BASE DE DONNÉES: GESTION DES DONNÉES RELATIVES AUX MESURES DE PLOMB DANS L'ESSENCE - ESSENCE

g) **Support (hardware/software)**

Micro-ordinateur.

h) **Présentation (tableaux, cartes, etc.)**

Tableaux de chiffres.

5. **Restrictions et conditions**

Pas de restriction à l'accès - données non confidentielles.

6. **Prix**

Aucun.

7. **Sources imprimées correspondantes**

Un rapport annuel.

8. **Langue(s)**

Français.

9. **Aides à l'utilisateur disponibles**

Aucune.

10. **Mots-clés suggérés**

Plomb dans l'essence
Conformité
Règlement

11. **Renseignements supplémentaires**

Le système a été développé à l'aide du logiciel KnowledgeMan, jusqu'en 1988. Depuis 1988, le système a été transféré sur un système géré par le logiciel FoxBase, de manière à incorporer un plus grand nombre de types d'essence sans plomb.

DATABASE: GREAT LAKES SHORELINE GEOGRAPHIC INFORMATION SYSTEM

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Information on shoreline land use, structures, flood and erosion hazard areas, environmentally sensitive areas and nearshore characteristics.

b) **Purpose of the Database**

Evaluation of the impacts of changing lake levels on the shore zone and as a tool in shoreline management.

3. a) **Name and Address of Responsible Organization**

Water Planning and Management Branch, Inland Waters Directorate, Ontario Region, P.O. Box 5050, Burlington, Ontario L7R 4A6.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

William Bien (416) 336-4551

c) **Access Mechanisms**

Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

Land use in shoreline buffer, number of buildings in reach, erosion rate data, erosion and flood hazard areas, location of wetlands, nearshore contours, wave energy, major fetch, fetch of 8 compass points, offshore lake bottom material, percent shore protection, sediment transport volumes.

b) **Geographic Coverage**

Great Lakes - St. Lawrence shoreline.

c) **Data Acquisition Method(s)**

From aerial photographs and existing data sources.

d) **Geographic Unit(s) of Measurement**

Shoreline divided into reaches of uniform physiographic conditions.

e) **Period of Record**

Some data cover a time period since about 1970, other portions are from the mid-1980's.

DATABASE: GREAT LAKES SHORELINE GEOGRAPHIC INFORMATION SYSTEM

f) **Update Frequency**

None at present.

g) **Database Hardware/Software Configuration**

Uses TYDAC's SPANS GIS software on PC-compatibles. Portions of data stored in LOTUS 1-2-3 and D-BASE III files.

h) **Output Format(s) (tables, maps, etc.)**

Maps, tables, diskettes.

5. **Restrictions and Conditions**

Not considered yet.

6. **Price Information**

Not considered yet.

7. **Corresponding Printed Sources**

Much of the material has been abstracted from reports and files at Canada Centre for Inland Waters.

8. **Languages**

English.

9. **User Aids Available**

No manuals are available for this application but manuals on the SPANS software are available from TYDAC.

10. **Suggested Keywords**

Shoreline management, GIS, Great Lakes.

11. **Additional Information**

This database is presently in the development phase.

DATABASE: HISTORIC SITES AND MONUMENTS BOARD OF CANADA/SYSTEMS PLANNING (HSMBC/SP)

1. **Datafile Name(s)**

   Not applicable

2. a) **Summary Description of Contents**

   Data on recommendations by the HSMBC on national historic significance.

   b) **Purpose of the Database**

   To provide current information on commemoration of Canadian history, including negative recommendations.

3. a) **Name and Address of Responsible Organization**

   Operations Branch
   National Historic Parks and Sites Directorate
   Canadian Parks Service
   Environment Canada
   Ottawa, Ontario
   K1A 0H3

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Douglas Sullivan (819) 997-4038

   c) **Access Mechanisms**

   Through the responsible organization

4. a) **Parameters Measured (summarized if too extensive)**

   - sites of national historic significance
   - sites reviewed but not of national significance
   - thematic representation of sites
   - spatial representation of sites and themes.

   b) **Geographic Coverage**

   National

   c) **Data Acquisition Method(s)**

   Through the tri-annual HSMBC meetings

   d) **Geographic Unit(s) of Measurement**

   Not applicable

DATABASE: HISTORIC SITES AND MONUMENTS BOARD OF CANADA/SYSTEMS PLANNING (HSMBC/SP)

e) **Period of Record**

1919 to present

f) **Update Frequency**

Tri-annually

g) **Database Hardware/Software Configuration**

Mainframe computer using ORACLE database management software. (Accessed through Environment Canada's Departmental Office Technology System - DOTS).

h) **Output Format(s) (tables, maps, etc.)**

Standardized reports in text form

5. **Restrictions and Conditions**

Restrictions on archaeological site locations and information on sensitive HSMBC recommendations. Searches should be conducted by Operations Branch Staff.

6. **Price Information**

No charges for reasonably sized requests

7. **Corresponding Printed Sources**

Sites declared to be of national historic significance - tri-annual summary.

8. **Languages**

Reports are available in English or French. Most of the database contains codes that are translated into text for printed reports.

9. **User Aids Available**

None.

10. **Suggested Keywords**

Not applicable.

11. **Additional Information**

1. The HSMBC database resides within the Department of the Environment.
2. At present, the database is only accessible through the contact person.
3. Specialized reports, over and above those identified in #7, can be prepared with sufficient notice.

DATABASE: LAKE SUPERIOR SHORE PROPERTY INVENTORY AND DAMAGE SURVEY

1. **Datafile Name(s)**

SURVEY.DBF
QUESTION.DBF

2. a) **Summary Description of Contents**

Data from a 1987 engineering survey of Canadian Lake Superior shoreline properties for flood/erosion damage potential and questionnaire survey of property owners regarding past damages.

b) **Purpose of the Database**

To identify shore damage potential and provide data for Lake Superior at a level comparable to lower lakes.

3. a) **Name and Address of Responsible Organization**

Water Planning and Management Branch, Inland Waters Directorate
Ontario Region, Conservation and Protection, Environment Canada,
Canadian Centre for Inland Waters, Burlington, Ontario L7R 4A6.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

William Bien (416) 336-4551

c) **Access Mechanisms**

Through the responsible organization.

4. a) **Parameters Measured (summarized if too extensive)**

- property photo inventory
- distance of structures from waterline
- structure type and quality
- elevation of lower openings
- residential/seasonal status
- potential for damage and other information

b) **Geographic Coverage**

- Canadian Lake Superior shoreline
- Thunder Bay
- Sault Ste. Marie (approx. 2600 properties)

c) **Data Acquisition Method(s)**

- engineering survey
- questionnaire survey

DATABASE: LAKE SUPERIOR SHORE PROPERTY INVENTORY AND DAMAGE SURVEY

d) **Geographic Unit(s) of Measurement**

Site specific measurements.

e) **Period of Record**

Engineering survey May - September 1987
Survey Questionnaire - info regarding protection expenditures in previous 5 yrs.

f) **Update Frequency**

There are no plans at present to update this database.

g) **Database Hardware/Software Configuration**

IBM/PC / compatible
D-Base 3 datafiles

h) **Output Format(s) (tables, maps, etc.)**

May be customized from original data.

5. **Restrictions and Conditions**

Some confidentiality restrictions may apply.

6. **Price Information**

No charge.

7. **Corresponding Printed Sources**

Lake Superior shore property damage assessment and social impact assessment, study report by Marshall, Macklin, Monaghan. Prepared for Environment Canada and Ontario Ministry of Natural Resources 1988.

8. **Languages**

English.

9. **User Aids Available**

Not applicable.

10. **Suggested Keywords**

Shore properties, susceptibility to flood/erosion damages, Lake Superior, shore use, inventory.

BASE DE DONNÉES: PROJETS DES CENTRES MANUFACTURIERS HISTORIQUES - PCMH

1. **Noms des fichiers**

Non applicable

2. a) **Brève description du contenu**

Information standard sur les manufactures canadiennes ayant existé entre 1850 et 1939 et dont une partie ou tous les édifices existent encore de nos jours.

b) **Objet, usages**

Identifier, pour la Commission des lieux et monuments historiques du Canada (CMLHC), les sites possibles de commémoration de l'histoire manufacturière canadienne.

3. a) **Nom et adresse de l'organisme responsable**

Direction de la recherche historique
Direction générale des parcs et lieux historiques nationaux
Environnement Canada
Ottawa, Ontario K1A 0H3

b) **Personne(s)-ressource(s), adresse (si différente de 3a), n° de tél.**

Jean-Claude Parent (819) 997-0530

c) **Mécanismes d'accès**

Par l'entremise de l'organisme responsable.

4. a) **Paramètres mesurés (résumés si le nombre est trop grand)**

- Localisation géographique
- Noms des différentes compagnies ayant occupé un édifice manufacturier
- Productions manufacturières
- Date de construction

b) **Région visée**

Étendue nationale; 60 villes ont été répertoriées.

c) **Méthode de collecte de données**

Recherche historique dans les plans d'assurance-incendie et quelques sources secondaires et visites personnelles.

d) **Unité(s) de mesure géographique(s)**

Sans objet

e) **Période visée par les données**

1850 à 1939

f) **Fréquence de mise à jour**

Fréquence irrégulière

g) **Support (hardware/software)**

Micro-ordinateur Toshiba T-1200 comprenant un logiciel Foxbase+, version 2.1.

h) **Présentation (tableaux, cartes, etc.)**

Listes et tableaux

5. **Restrictions et conditions**

Pas de restrictions. La recherche sera effectuée par un membre du Projet des centres manufacturiers historiques (PCMH).

6. **Prix**

Sans frais pour les demandes raisonnables.

7. **Sources imprimées correspondantes**

Aucune

8. **Langue(s)**

Rapports en anglais. Les enregistrements sont dans l'une ou l'autre langue.

9. **Aides à l'utilisateur disponibles**

Aucun

DATABASE: PUBLIC OPINION ON THE ENVIRONMENT

1. **Datafile Name(s)**

Not applicable.

2. a) **Summary Description of Contents**

Results of national surveys of public opinion on the environment.

b) **Purpose of the Database**

To obtain a knowledge of public opinion on the environment for use in strategic planning.

3. a) **Name and Address of Responsible Organization**

Corporate Policy Group, Environment Canada, Ottawa, Ontario K1A OH3.

b) **Contact Person(s), Address (if different from 3a), Telephone Number**

Catherine Starrs (819) 994-5158

c) **Access Mechanisms**

Through the responsible organization, or the private firms that conduct the polls and produce the magazines to which the responsible organization subscribes.

4. a) **Parameters Measured (summarized if too extensive)**

1. Public opinion on:
   - environmental issues (e.g. toxic chemicals contamination, acid rain, water quality, waste management)
   - relative significance of environmental issues
   - relative significance of environmental versus other issues
   - performance of federal/provincial governments in relation to the environment
   - responsibility for environmental protection
   - willingness to pay for environmental protection; changes in purchasing decisions
   - personal efficacy in contributing to the resolution of environmental problems.

2. Respondent characteristics (age, sex, education, language, income, occupation, location).

b) **Geographic Coverage**

National, all provinces and territories.

DATABASE: PUBLIC OPINION ON THE ENVIRONMENT

c) **Data Acquisition Method(s)**

Opinion surveys are conducted by telephone or in-house interviews.

d) **Geographic Unit(s) of Measurement**

Opinion statistics summarized nationally or regionally.

e) **Period of Record**

Late 1970's - present.

f) **Update Frequency**

Quarterly reports are produced by private firms.

g) **Database Hardware/Software Configuration**

Hardcopy - reports of survey results.

h) **Output Format(s) (tables, maps, etc.)**

Tables and text.

5. **Restrictions and Conditions**

The availability of information in private reports is limited by copyright agreement; the report produced by the responsible organization is available only within the federal government.

6. **Price Information**

No charge for the report prepared by the responsible organization. Contact the appropriate private firm for subscription costs.

7. **Corresponding Printed Sources**

1. Public opinion and the environment, 1988.
2. Publications of private firms (see 11).

8. **Languages**

All reports are in English. French summaries are available from the private firms for their reports.

9. **User Aids Available**

Brochures on the publications are available from the private report producers.

DATABASE: PUBLIC OPINION ON THE ENVIRONMENT

10. Suggested Keywords

Environment - public opinion.

11. Additional Information

1. This database is composed of reports describing public opinion surveys carried out by four private firms, the publications of which the responsible organization subscribes to. The four reports are: The Quarterly Report, Focus Canada, Environmental Monitor, and the Reid Report. The respective firms are: Decima Research, Environics, International Environmental Monitor and Environics and Augus Reid and Associates.

2. The responsible organization had a summary report prepared (see 7) based on the publications previously listed.

3. Plans are to put the database on a computer eventually.

4. The results of the polls are on computers at the firms who conduct them.

DATABASE: WESTERN AND NORTHERN REGION INDUSTRIAL COMPLIANCE (PROPOSED)

1. **Datafile Name(s)**

   Not applicable

2. a) **Summary Description of Contents**

   Information reported by industry on industrial compliance to national environmental protection regulations.

   b) **Purpose of the Database**

   To record reported information and store historical data.

3. a) **Name and Address of Responsible Organization**

   Environmental Protection
   Scientific Programs Branch
   Environment Canada
   2nd floor, Twin Atria #2
   4999-98th Avenue
   Edmonton, Alberta
   T6B 2X3

   b) **Contact Person(s), Address (if different from 3a), Telephone Number**

   Art Beckett (403) 468-8037

   c) **Access Mechanisms**

   Through the contact person

4. a) **Parameters Measured (summarized if too extensive)**

   - Location of regulated industries under:
     Pulp and Paper Regulations
     Metal Mining Regulations
     Refinery Regulations;

   - All required physical/chemical and toxicity data.

   b) **Geographic Coverage**

   Western and Northern Region of Environment Canada.

   c) **Data Acquisition Method(s)**

   Information reported by industry

   d) **Geographic Unit(s) of Measurement**

   Point Source, site specific.

DATABASE: WESTERN AND NORTHERN REGION INDUSTRIAL COMPLIANCE (PROPOSED)

e) **Period of Record**

New database not yet operational.

f) **Update Frequency**

Irregularly but intended to be monthly.

g) **Database Hardware/Software Configuration**

IBM PC - D-Base III+

h) **Output Format(s) (tables, maps, etc.)**

Tabular report

5. **Restrictions and Conditions**

Some information is confidential

6. **Price Information**

None

7. **Corresponding Printed Sources**

None

8. **Languages**

English

9. **User Aids Available**

None

10. **Suggested Keywords**

11. **Additional Information**

This is a proposed data base currently under development. As such it is not currently searchable and most aspects remain changeable. Please contact A. Beckett for further information.

APPENDIX 4

MODIFIED STRESS FRAMEWORK FOR ENVIRONMENTAL DATA ORGANIZATION

This framework offers one way of organizing or categorizing various types of environmental data and statistics. It is presented here as a guide to data/parameter categories of interest to SOE reporting.

Category	Example Parameters
I. Environmental Assets	
A Water Resources	- Supply quantity and area statistics
B Land Resources	- Supply quantity and area by classification
C Forests	- Supply quantity and age statistics
D Fisheries	- Population and stock size statistics
E Wildlife	- Population and location statistics
F Non-renewable resources	- Mineral and location statistics
G Climate	- Meteorological statistics
H Oceans	- Oceanographic statistics
II. Agents of Environmental Change (socio-economic and natural activities)	
A Waste generation by sector and/or by waste type	
1. Mining and smelting	- Emissions, tailings production, effluent volumes
2. Manufacturing	- Emissions, waste generation, effluent discharges
3. Municipal	- Sewage effluent discharge, waste landfilled/incinerated
4. Energy	- Emissions, waste generation
5. Transportation	- Emissions, spills
6. Other	
B Environmental Restructuring	
1. Buildings	- Building starts and completions, land and habitat conversion
2. Transportation	- Corridor construction, airports, land and habitat conversion
3. Agriculture	- Land conversion, wetland drainage
4. Energy	- Dam construction, flooding
5. Other	

C Harvesting	
1. Fisheries	- Catches by fish, fishery, zone; trends
2. Agriculture Forestry	- Tree harvest by area; trend
3. Hunting and trapping	- Wildlife harvest by species, area; trends
D Depletion of non-renewable resources	- Mineral/ore/fuel production by region, province
E Natural Activity	- Major flood occurrence - Major droughts - Major earthquakes and landslides - Trends in river and lake levels - Trends in atmospheric and oceanic conditions - Occurrence and trends in forest disease conditions, forest fires
F Other	- Pesticide applications
III. Environmental Quality	
A Air	- Levels and trends in air pollutants by region/pollutant
B Water (freshwater, marine)	- Levels and trends in water polluting substances
C Food	- Levels and trends of contaminants in foodstuffs
D Human Health and exposure	- Toxic substance analysis in body fluids, tissues - Morality and morbidity statistics
E Soil	- Organic matter content, erosion rates, salinization, acidity, etc.
F Precipitation	- Acid deposition rates
G Fish and Wildlife Populations	- Toxic substance analysis and trends, population dynamics, species diversity endangered species, occurrences of lesions, disease
H Forests	- Forest depletion rate, cutting, restocking, species diversity, disease
I Landscape	pest and fire trends
J Other	- critical land conversions (e.g. prime agricultural land), number and locations of protected areas and reserves

SOURCE: Modified from Environment Canada, 1987. A study of Environmental Reporting in Canada. The Stakeholder Group on Environmental Reporting. Ottawa.

APPENDIX 5

SOE DATABASE SURVEY FORM

SOE DATABASE SURVEY FORM

1. a) Database Name and Acronym

   b) DATAFile Name(s)

2. a) Summary Description of Contents

   b) Purpose of the Database, Uses

3. a) Name and Address of Responsible Organisation

   b) Contact Person(s), Address (if different from 3a), Telephone Number

   c) Access Mechanisms

4. **DETAILED DATABASE DESCRIPTION**

   a) Parameters Measured (summarize if too extensive)

   b) Geographic Coverage

   c) Data Acquisition Method(s)

   d) Geographic Unit(s) of Measurement

(Continued overleaf)

e) Period of Record

f) Update Frequency

g) Database Hardware/Software Configuration

h) Output Format(s) (tables, maps, etc.)

5. Restrictions and Conditions

6. Price Information

7. Corresponding Printed Sources

8. Language(s)

9. User Aids Available

10. Suggested Keywords

11. Additional Information

Please complete and return by January 31, 1989 to:

Environmental Information Systems Division
SOE Reporting Branch
Environment Canada, 10th Floor, PVM
Ottawa, Ontario
K1A 0H3

For questions or clarifications, call:

Terence McRae, Environment Canada
Telephone: 819-997-4149
or
Bruce Mitchell, Statistics Canada
Telephone: 613-951-3742